CURRICULUM VITAE: RAVI K. SHETH (March 2023)

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Date of birth: 20 February 1968   Place of birth: Milwaukee, WI, USA
Nationality: USA/Italy

Faculty Appointments:

2021 –	Chair, Physics & Astronomy Graduate Group	
2016 – 2017	Associate Chair for Graduate Affairs	
2009 –	Professor	University of Pennsylvania
2007 – 2010	Associate Chair for Graduate Affairs	
2007 – 2009	Associate Professor	University of Pennsylvania
2005 – 2007	Assistant Professor	University of Pennsylvania
2002 – 2004	Assistant Professor	University of Pittsburgh

Research Experience:

1999 – 2001	Fermilab, Batavia, IL, U.S.A.
1996 – 1999	MPI für Astrophysik, Garching, Germany
1994 – 1996	Astronomy Department, U.C. Berkeley, U.S.A.

Higher Education:

1990 – 1994	Ph.D. in Astrophysics Marshall Scholar	Institute of Astronomy and Jesus College University of Cambridge
1986 – 1990	BSc (High Honors) in Physics Dana S. McGill Scholar	Haverford College
1983 – 1986	Four 'IB' HL certificates	Kodaikanal International School, India

Visiting Positions:

Vikram Sarabhai Chair	Indian Nat. Sci. Acad.	India (2017–2018)
Associate Member	Simons CCA	New York (2016–)
Visiting Professor	JMI, Delhi	India (2016–2018)
Staff Associate	ICTP, Trieste	Italy (2015–2023)
Senior Associate	ICTS, Bangalore	India (2014–2016)
Visiting Professor	Institut Henri Poincaré	France (November 2013)
Visiting Professor	LUTH - Meudon Observatory	France (June 2013)
Senior Visiting Scholar	AIMS, Cape Town	South Africa (2012–2015)
Visiting Professor	LUTH - Meudon Observatory	France (June 2012)
Visiting Professor	GEPI - Meudon Observatory	France (June 2011)
Senior Research Scientist	ICTP, Trieste	Italy (2011–2012)
Visiting Scholar	IPhT-CEA, Saclay	France (June 2010)
Visiting Professor	APC, Paris 7 Diderot	Paris, France (June 2009)

Research interests/highlights:

I develop physical models and statistical methods which allow the data from large scale galaxy and cluster surveys to constrain models of galaxy formation and cosmology.

I have played a leading role in the development of what is now the standard model of nonlinear clustering and biasing: the Halo Model. It is the currently the best language for interpreting measurements of weak lensing, the thermal and kinematic Sunyaev-Zeldovich effects, and how galaxy clustering depends on galaxy type, both in real and in redshift space. In 2004, I showed that dark matter halo formation is correlated with environment; I also discussed why, and pointed out that understanding this correlation is necessary if the Halo Model is to be used as a precision tool for cosmology. The effect is now called Assembly of Secondary Bias. I have also used physically motivated models to illustrate the ubiquity of what are now called scale-dependent bias, tidal bias and velocity bias. This has led to new insights which are essential for placing unbiased constraints on cosmological parameters from biased tracers of the cosmic web. E.g., in 2016, my collaborators and I described a more general standard ruler for cosmological measurements. And in 2022, I showed that tests of the Strong Equivalence Principle *must* first account for inherent correlations between galaxy clustering and galaxy properties, thus correcting a significant oversight in the literature.

My work on halo abundances and clustering forms the basis of methods which use clusters (e.g., X-ray luminosities, temperatures, the Sunyaev-Zeldovich effects, galaxy velocity dispersions) to study cosmology. From 2004 to 2006 I extended the approach to predict how the morphology (sheets, filaments, voids) rather than simply the density, of large scale structure evolves. I have since studied how these predictions are modified if the initial conditions were non-Gaussian, or if the force of gravity does not decrease as the inverse-square of separation. In 2020, I extended these methods to estimate the abundance of Primordial Black Holes. Since 2021, I have been developing efficient methods for estimating the cosmic distance scale; one of these exploits recent advances in the field of Optimal Transport.

In 1996 I solved an old combinatorial problem on the partitions of integers which turns out to have interesting connections to coagulation and branching processes, and the spread of disease. In 1998 I showed how to extend the approach to model the counts in cells distribution in the nonlinear density field. In 2002, I developed a new method for estimating the evolution of the optical depth in the Lyman-alpha forest. In 2005, I showed how to use Mark Correlations to quantify and model environmental trends in the galaxy distribution, and in 2012 I used them to provide a novel test of the hypothesis that the brightest cluster galaxies follow Extreme Value statistics. In 2007 my collaborators and I showed that local black hole samples are a biased subset of all galaxies, a study that has seen renewed interest since 2016. Between 2007-2009 I developed methods for making unbiased estimates of the galaxy luminosity function and galaxy scaling relations from photometric redshift surveys. My methods can be applied to studies where peculiar velocities are an important component of the observed redshift: these include using star counts to model the structure of our galaxy, and estimating the luminosity function of dwarf galaxies in our local (≤ 50 Mpc) neighborhood. In 2018 I showed that self-consistently accounting for stellar population gradients yields good agreement between dynamical (Jeans equation) and stellar population based estimates of the stellar masses in galaxies.

In 2013, I showed how to unify the Excursion Set and Peaks Theory descriptions of the Cosmic Web, and provided the first quantitative predictions for the effects of tides on the large scale struc-

ture of biased tracers. In 2018, my collaborators and I provided the first detection of this tidal bias effect. My work on how tidal fields help spin the Cosmic Web has led me back to my work on a particularly rich problem. In 1996 I showed how to map the problem of enumerating the forest of halo merger history trees into a combinatorics problem on the partitions of integers. My solution led to a flurry of activity in the probabilistic literature on the Additive Coalescent. I have recently returned to this problem in the context of Gaussian walks with correlated steps crossing a stochastic barrier whose statistics need not be Gaussian; like my work in 1996, this problem also pushes the boundaries of what is known in the literature on stochastic processes. I showed that the Stratonovich approximation to the first crossing distribution is equivalent to assuming that the crossing scales are described by an inhomogeneous Negative Binomial point process.

Graduate Students (* denotes faculty/research scientist):

*U. Abbas	Pitt→Marseille→Torino	Galaxy clustering and environment
R. Skibba	Pitt→ ⋯ →UCSD	Mark correlation functions
*L. Rimoldini	Pitt→ ⋯ →Geneva	Clustering of absorption line systems
*G. Rossi	Penn→ ⋯ →Sejong U.	Distance errors in cosmology
T. Y. Lam	Penn→ ⋯ →Bain & Co	Non-gaussian statistics in cosmology
*M. Martino	Penn→ ⋯ →St.Benedict	Environmental effects and non-standard models
*M. Caler	Penn→ West Chester U	Absorption line systems
*J. Moreno	Penn→ ⋯ →Pomona	Merger trees and quasars
*N. Frusciante	SISSA→ ⋯ →Lisboa→Naples	Local and nonlocal bias
*E. Castorina	SISSA→ ⋯ → CERN→Milan	Stochastic bias and neutrinos
E. Massara	SISSA→ ⋯ → Waterloo	Neutrinos and voids in modern cosmology
J. Shi	SISSA→KIAA, Beijing → IPMU	Correlations with environment
F. Nikakhtar	Penn → Yale	Baryon acoustic oscillations

Post-graduate Scholar Sponsor (* denotes faculty):

*J. Colberg	Pitt→ ⋯ → UHartford	Voids; Theorist's Virtual Observatory
*D. Vanden Berk	Pitt→ ⋯ → St. Vincent	Quasars and AGN
*R. Smith	Penn→ ⋯ → Sussex	Halos, perturbation theory and BAOs
*L. Ostorero	Penn→ Torino	
*P. Pápai	ICTP→ PSU, Thailand	Anisotropic clustering
*A. Paranjape	ICTP→ ETH→ IUCAA	Excursion set peaks
*E. Sefusatti	ICTP→ ⋯ → INAF Trieste	Fast mocks for cosmology
S. Anselmi	ICTP→ ⋯ → Padova	Baryon acoustic oscillations
*M. Musso	Penn→ MPA→ EAIFR→ Salamanca	Random walks and halo formation

Grants and Awards:

Co-I: NASA-ATP (2011-2015):
Galaxies, halos and mass as cosmological tests ($417k)

PI: NSF (2009-2013):
Stochastic bias and ellipsoidal collapse ($407k)

Co-I: Westerbork Radio Telescope (2006-2007):
The gas content of void galaxies (195 hours)

PI: NSF (2005-2009):
Accounting for distance errors in cosmology ($295k)

Joint PI: HST Cycle 14 Archival:
Mark correlations and galaxy evolution ($20k of $80k)

Co-I: HST Cycle 14 Archival (PI: D. Turnshek):
Are our ideas about quasar absorption lines consistent with galaxy images?

Co-I: HST Cycle 13 Snapshot (PI: M. Bernardi):
The most massive galaxies in the Universe ($0k of $113k)

PI: NASA-ADP (2004-2007):
Hot and cold spots in the WMAP sky ($135k)

PI: NSF (2003-2007):
Substructure and the halo model of large scale structure ($235k)

Joint-PI: US-Israel BSF (2003-2007):
Cosmology with the Lyman-alpha forest ($37k)

PI: NASA-ATP (2003-2006):
Marked correlation functions and the evolution of galaxy biasing ($290k)

PI: NCSA-PSC TCS1 (2003-2004):
Numerical simulations of self-similar gravitational clustering (35k units)

PI: UPitt FRG II (2002-2005):
Ellipsoidal collapse and the shapes of objects ($3k)

Courses Developed and Taught at Penn:

Spring 2023	Introduction to Astrophysics II	10 science majors
Fall 2021	Survey of the Universe	24 non-science majors
Spring 2022	Introduction to Astrophysics II	12 science majors
Fall 2021	Survey of the Universe	49 non-science majors
Spring 2021	Survey of the Universe	78 non-science majors
Fall 2020	Introduction to Astrophysics I	47 science majors
Fall 2019	Introduction to Astrophysics I	33 science majors
Spring 2019	Cosmology	10 PhD students
Fall 2018	The Big Bang and Beyond	18 freshman
Spring 2018	Survey of the Universe	35 non-science majors
Fall 2017	The Big Bang and Beyond	35 freshman
Spring 2017	Cosmology	10 PhD students
Fall 2016	Survey of the Universe	70 non-science majors
Spring 2016	Physics Principles II	70 physics/engineering majors
Fall 2015	Survey of the Universe	70 non-science majors
Spring 2015	Physics Principles II	110 physics/engineering majors
Fall 2014	The Big Bang and Beyond	25 freshman
Fall 2013	Survey of the Universe	72 non-science majors
Spring 2013	Survey of the Universe	125 non-science majors
Spring 2010	The Big Bang and Beyond	60 non-science majors
Fall 2009	The Big Bang and Beyond	25 freshman
Fall 2008	Survey of the Universe	60 non-science majors
Spring 2008	The Big Bang and Beyond	15 non-science majors
Fall 2007	The Big Bang and Beyond	13 non-science majors
Spring 2007	Life in the Universe	19 non-science majors
Fall 2006	The Big Bang and Beyond	115 non-science majors
Spring 2006	Life in the Universe	26 non-science majors
Fall 2005	Physics I: Mechanics and Waves	83 physics/engineering majors
Spring 2005	Mechanics, Dynamics and Chaos	4 graduate students

Courses Developed and Taught at Pitt:

Spring 2004	Stonehenge to Hubble	100 non-science majors
Fall 2003	Introduction to Astronomy	100 physics majors
Spring 2003	Galactic and Extra-galactic Astronomy	7 graduate students
Fall 2002	Introduction to Astronomy	100 physics majors
Spring 2002	Radiative Processes in Astrophysics	7 graduate students

Courses Developed and Taught in Trieste:

Summer 2014	Cosmology	ICTP Diploma
Spring 2012	Cosmology	ICTP Diploma
Spring 2012	Large Scale Structure	SISSA PhD

Courses Developed and Taught Elsewhere:

Lecturer	Primordial black holes	Barcelona (July 2023)
Lecturer	Precise cosmological distances	UPenn (June 2020)
Lecturer	Observational probes of cosmology	EAIFR, Kigali (August 2019)
Lecturer	Large scale structure	ICTP, Trieste (June 2018)
GIAN Lecturer	Nonlinear structure formation	JMI, Delhi (April 2018)
Lecturer	Structure formation in cosmology	IPM, Tehran (August 2017)
Lecturer	Nonlinear structure formation	ON, Rio de Janiero (August 2016)
Lecturer	Dark matter structures	IFT, Sao Paolo (July 2016)
Lecturer	Statistical methods in astronomy	University of Padova (May 2016)
Lecturer	Formation of cosmic structures	IUCAA, Pune (February 2016)
Lecturer	Structure formation	Bogota, Columbia (November 2015)
Lecturer	Large scale structure	SAIFR, Sao Paolo (December 2014)
Lecturer	Dark matter structures	ISAPP, Belgirate (July 2014)
Lecturer	Statistical methods in astronomy	University of Padova (May 2014)
Lecturer	Statistical approaches in cosmology	IHP, Paris (November 2013)
Lecturer	Galaxy surveys	TIFR, India (December 2012)
Lecturer	Structure formation	STIAS, South Africa (Jan 2012)
Visiting Lecturer	Nonlinear clustering	HRI, India (February 2009)
Lecturer	XIII BSCG	Rio de Janiero, Brazil (July 2008)
PIRE Lecturer	Hierarchical structure formation	Santiago, Chile (March 2007)
Lecturer	Galaxies and Cosmology	University of Padova (January 2007)
NOVA Lecturer	The halo model	The Netherlands (November 2006)

Department/University Service:

2022 –	Penn member of Dark Energy Survey Instrument
2021 –	Co-coordinator of Penn APS Bridge and APS Chapter programs
2021	Department Ad Hoc Committee for hiring of Lab Coordinator
2021 –	Graduate Chair
2019	Penn GRIP host to two Penn undergraduate students
2019	Department Ad Hoc Committee for Promotion of M. Sako
2018 –	Mentoring Committee for R. Sanderson
2016 – 2017	Graduate Chair
2017	Department Ad Hoc Committee for Promotion of A. Sweeney
2015 – 2016	Department Ad Hoc Committee for Promotion of J. Khoury
2015 –	Graduate Committee
2014 –	CURF Faculty Fellowship Review Committee
2014 – 2018	Department Grievance Committee
2013 – 2014	Department Ad Hoc Committee for Promotion of A. Lidz
2009 – 2011	Committee on Undergraduate Academic Standing
2007 – 2011	Graduate Chair
2007 – 2011	Department Planning Committee
2007	Particle-Cosmology Faculty Search Committee
2006 – 2011	Overseer Penn Dark Energy Survey Account
2006	Graduate Committee
2006	Colloquium Committee
2006	Astronomy Seminar Organizer
2005 – 2008	Astro Faculty Search Committee
2005 –	50 PhD Thesis Committees (other than for my own students)

External Service:

2023	ERC Grant Review Panel
2023	NASA TCAN Grant Review Panel
2022 –	Organization for Women in Science for the Developing World Reviewer
2022 –	Belgian National Research Agency (FNRS) Grant Reviewer
2021	French National Research Agency (ANR) Grant Reviewer
2020	NASA TCAN and ADAP Grant Review Panels
2020 –	NASA HST External TAC
2020	Dutch Research Council Reviewer
2020	Editorial Board: Universe
2019	NASA ATP Grant Review Panel
2019	NSF AAPF Grant Review Panel
2018 –	Scientific Council, East Africa Institute for Fundamental Physics, Rwanda
2018	NASA HST Grant Review Panel
2017	NASA ATP Grant Review Panel
2017 –	ASI, INFN, INAF (Italian Space, High Energy, Nuclear, Astro) Reviewer
2017	DFG (German Research Foundation) Reviewer
2017	NSF Physics Frontiers Centers Reviewer
2015	NASA ADAP Grant Review Panel
2014 – 2017	NOAO Time Allocation Committee: Extra-Galactic Chair
2014	NSF COS2 Grant Review Panel
2013	NASA ATP Grant Review Panel
2012 –	Kaufman Science Advisory Board
2012 –	IAU-OAD Task Force 1 (Research and Universities)
2009	NASA ATP Grant Review Panel
2008	NOAO Extragalactic Time Allocation Committee
2008 – 2017	Editorial Board: Advances in Astronomy
2007 – 2008	Dark Energy Survey Publications Committee
2007 –	PhD reviewer for students in France, India, Israel, Italy, Spain, The Netherlands
2007	NASA Spitzer Proposal Review Panel
2006 – 2007	NSF Grant Review Panel
2004	NASA Grant Review Panel
2004 –	Public lectures: Philadelphia, Pittsburgh, Rio de Janeiro
1995 –	Referee for AA, ApJ, JCAP, MNRAS, New. Ast., J Phys A, PRD

Organization of International Conferences:

Local Organizing Committee - APS CUWiP 2024 @ UPenn
Philadelphia, PA (19-21 January 2024)

Organizing Committee - Cosmological tensions and implications for concordance cosmology
IFPU, Trieste, Italy (12-23 June 2023)

Convener - Large Scale Structure: 2nd Roman Juszkiewicz Symposium
Warsaw, Poland (26-30 September 2022)

Convener - Cosmology Session: PASCOS 2022
MPIK, Heidelberg, Germany (25-29 July 2022)

Co-Director: ICTP Cosmology Summer School
ICTP, Trieste, Italy (04-15 July 2022)

Convener - Cosmology Session: PASCOS 2020
MPIK, Heidelberg, Germany (13-17 July 2020 - canceled/pandemic)

Co-Director: ICTP Cosmology Summer School
ICTP, Trieste, Italy (11-22 May 2020 - canceled/pandemic)

Co-Organizer: Dynamics of Large Scale Structure Formation
Munich Institute for Astro- and Particle Physics, Germany (1-26 July 2019)

Scientific Organizing Committee: Assembly Bias
Shanghai Astrophysical Observatory, China (10-14 June 2019)

Organizing Committee: Shedding Light on the Dark Universe with ELTs
ICTP, Trieste, Italy (2-6 July 2018)

Co-Director: ICTP Cosmology Summer School
ICTP, Trieste, Italy (18-29 June 2018)

Scientific Organizing Committee: Galaxy evolution across time
Paris, France (12-16 June 2017)

Organizing Committee: ICTP Workshop on Cosmology with Radio Surveys
ICTP, Trieste, Italy (18-21 June 2016)

Co-Director: ICTP Cosmology Summer School
ICTP, Trieste, Italy (4-15 June 2016)

Organizing Committee: Workshop on Galaxies in the cosmic web
Lorentz Center, The Netherlands (7-11 March 2016)

Co-Director: School and Workshop on Cosmology and galaxy formation
IUCAA, Pune, India (1-12 February 2016)

Organizing Committee: Workshop on Unbiased constraints from biased tracers
Institute for Advanced Studies, Princeton (24-26 September 2015)

Convener: Cosmology Sessions at TAUP 2015
Torino, Italy (7-11 September 2015)

Co-Director: ICTP Advanced School on Cosmology
ICTP, Trieste, Italy (18-29 May 2015)

Organizing Committee: Joint SAIFR/ICTP Cosmology School
SAIFR, Sao Paolo, Brazil (1-13 December 2014)

Organizing Committee: ICTP Cosmology Summer School/Large Scale Structure Workshop
ICTP, Trieste, Italy (4-21 August 2014)

Organizing Committee: Mini-symposium on High Energy Physics and Phenomenology
ICTP, Trieste, Italy (14 April 2014)

Organizing Committee: Halo bias: Nonlinear, nonlocal and non-Gaussian
ICTP, Trieste, Italy (8-11 October 2013)

Organizing Committee: New light in cosmology from the CMB
ICTP, Trieste, Italy (22 July - 2 August 2013)

Organizing Committee: Recent developments in nuclear and astroparticle physics
ICTP, Trieste, Italy (19-23 November 2012)

Organizing Committee: The physics of star formation and its role in galaxy evolution
ICTP, Trieste, Italy (16-18 October 2012)

Organizing Committee: ICTP Cosmology Summer School/Large Scale Structure Workshop
ICTP, Trieste, Italy (16 July - 3 August 2012)

Organizing Committee: Perturbative approaches to redshift space distortions
Pauli Institute, ITP, Zurich, Switzerland (11-13 July 2012)

Organizing Committee: Joint ICTP-SISSA Workshop on Interacting Galaxies and Binary Quasars
ICTP, Trieste, Italy (2-5 April 2012)

Co-Director, Lecturer: Cape Town International Cosmology School
STIAS, Stellenbosch, South Africa (15-28 January 2012)

Organizer, Lecturer: School and Conference on Analytical and Computational Astrophysics
ICTP, Trieste, Italy (14-25 November 2011)

International Organizing Committee: 3rd Galileo–Xu Guangqi Meeting
Beijing, China (11-15 October 2011)

Organizing Committee: Workshop on Infrared Modifications of Gravity
ICTP, Trieste, Italy (26-30 September 2011)

Scientific Organizing Committee: Galaxy Evolution and Environment
Kuala Lumpur, Malaysia (30 March-3 April 2009)

Organizing Committee: Cosmological Voids
Dutch Royal Academy of Sciences, Amsterdam (11-15 December 2006)

Invited Chair: Galaxies and Large Scale Structure
XI Marcel Grossmann Meeting on General Relativity, Berlin, (23-29 July 2006)

Organizing Committee: Workshop on Voids
Aspen Center for Physics (28 May-18 June 2006)

Invited Chair: Galaxies and Large Scale Structure
X Marcel Grossmann Meeting on General Relativity, Rio di Janiero (20-26 July 2003)

Organizing Committee: Structure formation and dark matter halos
Fermilab, Batavia, IL (10-12 May 2001)

Organizing Committee: Evolution of large scale structure
The first MPA-ESO conference in Garching, Germany (2-7 August 1998)

Books and Invited Reviews:

1. Galaxies and large scale structure: Lecture notes from the XIIIth Brazilian School on Cosmology and Gravitation.
   Ravi K. Sheth. 2009.
   AIP Conference Proceedings, Volume 1132, pp. 158–198. Eds. M. Novello & S. Perez.

2. The Halo Model of Large Scale Structure
Asantha Cooray & **Ravi K. Sheth**. 2002
Physics Reports, 372, 1–129.

3. Evolution of large scale structure: From recombination to Garching
Eds. A. J. Banday, **Ravi K. Sheth** and L. da Costa. 1999
Proceedings of the MPA-ESO conference in Garching, Germany (2-7 Aug. 1998)

Primary Refereed Publications:

203. Halo bias for excursion set peaks in energy
M. Musso & **Ravi K. Sheth**. 2023
Monthly Notices of the Royal Astronomical Society, in prep

202. Laguerre reconstruction of the cosmological distance scale from a no-bins estimate of the
two-point correlation function
F. Abd Alrahman, F. Nikakhtar, M. Musso & **Ravi K. Sheth**. 2023
Physical Review D, in prep

201. Optimal transport reconstruction of biased tracers in redshift space
F. Nikakhtar, N. Padmanabhan, B. Lévy, **Ravi K. Sheth** & R. Mohayaee. 2023
Physical Review D, submitted (arXiv:2307.03671) (10 pages)

200. Model-agnostic cosmological constraints from the BAO feature in redshift space
Paranjape, Aseem & **Ravi K. Sheth**. 2023
Monthly Notices of the Royal Astronomical Society, submitted (arXiv:2304.09198)

199. Getting in shape with minimum energy: A variational principle for protohaloes
M. Musso & **Ravi K. Sheth**. 2023
Monthly Notices of the Royal Astronomical Society, 523, L4–L8

198. Stellar population analysis of MaNGA early-type galaxies: IMF dependence and systematic
effects M. Bernardi, H. Dominguez Sanchez & **Ravi K. Sheth**. 2023
Monthly Notices of the Royal Astronomical Society, 518, 4713–4733

197. The half mass radius of MaNGA galaxies: Effect of IMF gradients
M. Bernardi, **Ravi K. Sheth**, et al. 2023
Monthly Notices of the Royal Astronomical Society, 518, 3494–3508

196. Optimal Transport reconstruction of baryon acoustic oscillations
F. Nikakhtar, **Ravi K. Sheth**, B. Lévy & R. Mohayaee. 2022
Physical Review Letters, 129, 251101 (5 pages)

195. Bayesian evidence comparison for distance scale estimates
A. Paranjape & **Ravi K. Sheth**. 2022
Monthly Notices of the Royal Astronomical Society, 517, 4696–4704

194. The phenomenology of the external field effect in cold dark matter models
A. Paranjape & **Ravi K. Sheth**. 2022
Monthly Notices of the Royal Astronomical Society, 517, 130–139

193. The weak dependence of velocity dispersion on disk fractions, mass-to-light ratio and red-shift: Implications for galaxy and black hole evolution
C. Marsden, F. Shankar, M. Bernardi, **Ravi K. Sheth**, H. Fu & A. Lapi. 2022
Monthly Notices of the Royal Astronomical Society, 510, 5639–5660

192. Smearing scale in Laguerre reconstructions of the correlation function
F. Nikakhtar, **Ravi K. Sheth** & I. Zehavi. 2022
Physical Review D, 105, 043536 (12 pages)

191. The distribution of HI velocity profiles in a ΛCDM universe
A. Paranjape, R. Srianand, T. R. Choudhury & **Ravi K. Sheth**. 2021
Monthly Notices of the Royal Astronomical Society, submitted (arXiv:2105.04570)

190. Excursion set peaks in energy as a model for halos
M. Musso & **Ravi K. Sheth**. 2021
Monthly Notices of the Royal Astronomical Society, 508, 3634–3648

189. Laguerre reconstruction of the BAO feature in halo-based mock galaxy catalogues
F. Nikakhtar, **Ravi K. Sheth** & I. Zehavi. 2021
Physical Review D, 104, 063504 (11 pages)

188. Laguerre reconstruction of the correlation function on BAO scales
F. Nikakhtar, **Ravi K. Sheth** & I. Zehavi. 2021
Physical Review D, 104, 043530 (16 pages)

187. The radial acceleration relation in a ΛCDM universe
A. Paranjape & **Ravi K. Sheth**. 2021
Monthly Notices of the Royal Astronomical Society, 507, 632–650

186. Multi-wavelength mock galaxy catalogs of the low-redshift Universe
A. Paranjape, T. R. Choudhury & **Ravi K. Sheth**. 2021
Monthly Notices of the Royal Astronomical Society, 503, 4147–4162

185. Mock halo catalogs: Assigning unresolved halo properties using correlations with local halo environment
S. Ramakrishnan, A. Paranjape & **Ravi K. Sheth**. 2021
Monthly Notices of the Royal Astronomical Society, 503, 2053–2064

184. The effects of massive neutrinos on the linear point of the correlation function
G. Parimbelli, S. Anselmi, M. Viel, C. Carbone, F. Villaescusa-Navarro, P. S. Corasaniti, Y. Rasera, **Ravi K. Sheth**, G. Starkman & I. Zehavi. 2021
Journal of Cosmology and Astroparticle Physics, 01, 009 (29 pages)

183. Analytical thresholds for black hole formation in general cosmological backgrounds
A. Escrivà, C. Germani & **Ravi K. Sheth**. 2021
Journal of Cosmology and Astroparticle Physics, 01, 030 (25 pages)

182. On the presence of a universal acceleration scale in elliptical galaxies
K.-H. Chae, M. Bernard, H. Dominguez-Sanchez & **Ravi K. Sheth**. 2020
The Astrophysical Journal Letters, 903, L31 (6 pages)

181. Galaxy properties as revealed by MaNGA. III. Kinematic profiles and stellar population gradients in S0s
M. Bernardi, H. Domínguez Sánchez, F. Nikakhtar, B. Margalef-Bentabol & **Ravi K. Sheth**. 2020
Monthly Notices of the Royal Astronomical Society, 495, 2894–2908

180. The Stellar Mass Fundamental Plane: The virial relation and a thin plane for slow rotators
M. Bernardi, H. Domínguez Sánchez, B. Margalef-Bentabol, F. Nikakhtar & **Ravi K. Sheth**. 2020
Monthly Notices of the Royal Astronomical Society, 494, 5148–5160

179. Linear Point and Sound Horizon as purely geometric standard rulers: Parameter dependences and constraints from Cosmic Microwave Background measurements
M. O'Dwyer, S. Anselmi, G. D. Starkman, P.-S. Corasaniti, **Ravi K. Sheth** & I. Zehavi. 2019
Physical Review D, 101, 083517 (13 pages)

178. Nonlinear statistics of primordial black holes from gaussian curvature perturbations
C. Germani & **Ravi K. Sheth**. 2020
Physical Review D, 101, 063520 (15 pages)

177. Density and velocity profiles of cosmic voids
E. Massara & **Ravi K. Sheth**. 2019
Monthly Notices of the Royal Astronomical Society, submitted (arXiv:1811.03132)

176. A universal threshold for primordial black hole formation
A. Escrivà, C. Germani & **Ravi K. Sheth**. 2020
Physical Review D, 101, 044022 (5 pages)

175. Constraining black hole-host galaxy scaling relations and radiative efficiency from galaxy clustering
F. Shankar, V. Allevato, M. Bernardi, et al. 2020
Nature Astronomy, 4, 282–291

174. Excursion set peaks: the role of shear
E. Castorina, A. Paranjape, O. Hahn & **Ravi K. Sheth**. 2019
Journal of Cosmology and Astroparticle Physics, revised (arXiv:1611.03619)

173. Galaxy properties as revealed by MaNGA. II. Formation and assembly of slow and fast rotator ellipticals and dependence on environment
M. Bernardi, H. Domínguez Sánchez, J. R. Brownstein, N. Drory & **Ravi K. Sheth**. 2019
Monthly Notices of the Royal Astronomical Society, 489, 5633–5652

172. Galaxy properties as revealed by MaNGA. I. Constraints on IMF and M_*/L gradients in ellipticals
H. Domínguez Sánchez, M. Bernardi, J. R. Brownstein, N. Drory & **Ravi K. Sheth**. 2019
Monthly Notices of the Royal Astronomical Society, 489, 5612–5632

171. Constraints on the redshift evolution of astrophysical feedback with Sunyaev-Zel'dovich effect cross-correlations
S. Pandey, E. J. Baxter, Z. Xu, et al. 2019
Physical Review D, 100, 063519 (21 pages)

170. Cosmic web anisotropy is the primary indicator of halo assembly bias
S. Ramakrishnan, A. Paranjape, O. Hahn & **Ravi K. Sheth**. 2019
Monthly Notices of the Royal Astronomical Society, 489, 2977–2996

169. Exact enumeration approach to first-passage time distribution of non-Markovian random walks
S. Baghram, F. Nikakhtar, M. R. R. Tabar, S. Rahvar, **Ravi K. Sheth**, K. Lehnertz & M. Sahimi. 2019
Physical Review E, 99, 062101 (10 pages)

168. Cosmic distance inference from purely geometric BAO methods: Linear Point standard ruler and correlation function model-fitting
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