

Bio- Data of Ayan Chatterjee

1. Name and full correspondence address:

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Temporary Academic Block,
Shahpur, Kangra, Himachal Pradesh- 176206.

2. Email and contact number:

Email: ayan.theory@gmail.com
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3. Academic qualifications: Ph.D

Title: Aspects of black hole physics

Institute: Saha Institute of Nuclear Physics and Homi Bhabha National Institute.

Year of Award; 2010.

4. Work experience:

Sl.No.	Positions held	Name of the institute	From	To
1.	Post Doctoral Fellow	Institute of mathematical Sciences	January, 2010	March, 2012
2.	Visiting Fellow	Tata institute of fundamental research	March, 2012	October 2012
3.	Postdoctoral visiting scientist	Tata institute of fundamental research	November, 2012	November 2012

5. Specialisation: Theoretical Physics

6. Research Interest: Gravity, Black holes, Semiclassical gravity.

7. List of projects completed:

1 project funded by UGC- BSR of Rs. 6,00,000.00 completed on February, 2016.

8. Students supervised/ongoing: 1

9. Professional recognition, awards, fellowships and associateships :

Sl.no	Name of the award	Awarding agency	Year
1.	Student award	IAPT	2000
2.	Junior Research Fellowship	UGC-CSIR	2001
3.	Research fellowship	Saha Institute of Nuclear Physics	2002
4.	Second best paper and presentation	Indian physical society	2012
5.	UGC- BSR start- up grant	UGC	2014
6.	Visiting Associate	Inter University Center for Astronomy and Astrophysics	2017

6. List of Publications

Sl. No.	Authors	Title	Journal	Volume	Page	Year
1	Ayan Chatterjee and Avirup Ghosh	Quasilocal first law from local Lorentz transformations	European Journal of Physics C	Accepted for publication		2018
2.	Ayan Chatterjee	Black holes in $N=2$ supergravity	Indian Journal of Physics	92	927	2018

3.	A. Chatterjee and A. Ghosh	Quasilocal rotating conformal Killing horizons.	Physical Review D	92	044003	2016
4.	A. Chatterjee and A. Ghosh	Quasilocal conformal Killing horizons: Classical phase space and the first law	Physical Review D	91	064054	2015
5.	Ayan Chatterjee	Hawking radiation from quasilocal horizons	Pramana	86	307	2015
6.	A. Chatterjee, B. Chatterjee and A. Ghosh	Hawking radiation from dynamical horizons	Physical Review D	87	084051	2013
7.	R.Basu, A.Chatterjee and A.Ghosh	Local symmetries of non-expanding horizons	Classical and Quantum Gravity	29	235010	2012.
8.	Ayan Chatterjee	Increase of entropy of black holes in EGB theory	Jour. Of Phys.	405	012008	2012
9.	A. Chatterjee and S. Sarkar	Physical process first law for black holes in Einstein-Gauss-Bonnet gravity	Physical Review Letters	108	091301	2012
10.	R. Basu and A. Chatterjee	Horizon mechanics and asymptotic symmetries	Classical and Quantum Gravity	28	225013	2011.

		with a Immirzi-like parameter in 2+1 dimensions	Gravity			
11.	A. Chatterjee and S. Bhattacharjee	Gauge invariant coupling of fields to torsion: a string inspired model.	Physical Review D	83	106007	2011
12.	A. Chatterjee	Non- minimally coupled Holst action and black hole entropy	Annals of Physics	326	307	2010
13.	A. Chatterjee and A. Ghosh	Laws of black hole mechanics from Holst action	Physical Review D	80	064036	2009
14	Ayan Chatterjee	Weak Isolated Horizons	Am. Ins. Physics	939	96	2007
15.	A. Chatterjee and A. Ghosh	Generic weak isolated horizons	Classical and Quantum Gravity	23	7521	2006
16.	A. Chatterjee and P. Majumdar	Kalb-Ramond field interactions in a braneworld scenario	Physical Review D	72	066013	2005

15. Any other information:

(a) **Area of research:** Mathematical and Physical aspects of Black holes, semi-classical gravity.

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