Ryosuke Hirai

Curriculum Vitae

	Personal Information	
Name	Ryosuke Hirai (平井 遼介)	
Nationality	Japanese	
Gender	·	
	12th August, 1989	
	Research Interests	
2012-	Binary stars and supernovae	
2014-	Common envelope evolution	
2015-	Efficient numerical schemes for difference equa	tions
	Education	
2014–2017	PhD in Astrophysics , <i>Waseda University</i> , Advand Engineering.	vanced Research Institute of Science
2012–2014	Master of Science , <i>Waseda University</i> , Adva and Engineering.	nced Research Institute of Science
2008–2012	Bachelor of Engineering , <i>Waseda University</i> Engineering.	, School of Advanced Science and
	Positions	
2017	JSPS Research Fellow (PD), at Advanced Engineering, Waseda University.	Research Institute of Science and
2016–2017	JSPS Research Fellow (DC2), at Advanced Engineering, Waseda University.	l Research Institute of Science and
	Grants	
2016–2017	JSPS Research Fellow (DC2), Fellowship + Gr	ant
	Research Grant for Young Scientists, Early Bird Program from Waseda Research Institute for Science and Engineering	
	Languages	
Japanese	Mothertongue	
•	Intermediate	Spent 8 years of childhood in England

Publications

First Author

[5] The Origin of the Possible Massive Black Hole in the Progenitor System of iPTF13bvn

Ryosuke Hirai

Monthly Notices of the Royal Astronomical Society: Letters, Volume 469, Issue 1, p.L94-L98 (2017)

[4] Formation Scenario of the Progenitor of iPTF13bvn Revisited Ryosuke Hirai

Monthly Notices of the Royal Astronomical Society, Volume 466, Issue 4, p.3775-3783 (2017)

- [3] Hyperbolic Self-Gravity Solver for Large Scale Hydrodynamical Simulations

 Ryosuke Hirai, Hiroki Nagakura, Hirotada Okawa, Kotaro Fujisawa

 Physical Review D, Volume 93, Issue 8, article id.083006 (2016)
- [2] Possible Signatures of Ejecta-Companion Interaction in iPTF 13bvn Ryosuke Hirai, Shoichi Yamada

The Astrophysical Journal, Volume 805, Issue 2, article id. 170, 7 pp. (2015)

[1] The Outcome of Supernovae in Massive Binaries; Removed Mass, and its Separation Dependence

Ryosuke Hirai, Hidetomo Sawai, Shoichi Yamada

The Astrophysical Journal, Volume 792, Issue 1, article id. 66, 15 pp. (2014)

Co-Author

[1] Formation pathway of Population III coalescing binary black holes through stable mass transfer

Kohei Inayoshi, Ryosuke Hirai, Tomoya Kinugawa, Kenta Hotokezaka *Monthly Notices of the Royal Astronomical Society*, Volume 468, Issue 4, p.5020-5032 (2017)