

Fakultas Matematika dan Ilmu Pengetahuan Alam (FMIPA)

Faculty of Mathematics and Natural Sciences

Certificate of Participation

No.: PL62/200914/AS/fmipa

This certificate is proudly awarded to

Mark Ivan Gabo Ugalino

for attending
Summer School on Galaxies and Cosmology (SSGC)
September 14-25, 2020

Organized by Astronomy Research Division

Dr Anton Timer Jaelani

Bandung, 25 September 2020

Dean of FMIPA ITB

Wahyu Srigutomo, S.Si., M.Si., Ph.D.

Summer School on Galaxies and Cosmology (SSGC) September 14-25, 2020

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Mark Ivan Gabo Ugalino

Topics	Hours	Topics	Hours
Milky Way and Local Group (M. Ikbal Arifyanto - Institut Teknologi Bandung, Indonesia)	3	Dark Energy: Introduction and Current Surveys (Katarina (Dida) Markovic -California Institute of Technology, USA)	1.5
Scaling Relations in Galaxies (Stacy McGaugh - Case Western Reserve University, USA)	1.5	Developing Scientific Missions in JPL, NASA (Jason Rhodes - California Institute of Technology, USA)	1.5
Introduction to Cosmology (Premana W. Premadi - Institut Teknologi Bandung, Indonesia)	3	Indirect Detection of Dark Matter (Emmanuel Moulin -CEA Saclay, Irfu/SPP, France)	3
Introduction to Dark Matter (Hesti R. T. Wulandari - Institut Teknologi Bandung, Indonesia)	1.5	Direct Detection of Dark Matter (Josef Jochum - University of Tübingen, Germany)	3
Introduction to Diffuse Matter (Lucky Puspitarini - Institut Teknologi Bandung, Indonesia)	1.5	Alternatives to Dark Matter (Federico Lelli - Cardiff University, United Kingdom)	3
Introduction to Gravitational Lensing (Anton T. Jaelani - Institut Teknologi Bandung, Indonesia)	1.5	CMB and Large Scale Structure (Tarun Souradeep - IISER, India)	3
Astroparticle Physics and Dark Matter (Reinard Primulando - Universitas Katolik Parahyangan, Indonesia)	3	Our Current Understanding of the Physical Universe: Public Lecture 1 (Joel R. Primack - UC Santa Cruz, USA)	1.5
Dark Matter Controversy in the Milky Way and the Local Group (Masashi Chiba - Tohoku University, Japan)	3	The New Quests for Physics of the Early Universe: Public Lecture 2 (Eiichiro Komatsu - Max-Planck-Institut für Astrophysik, Germany)	1.5
Introduction to Weak Gravitational Lensing (Masamune Oguri - University of Tokyo, Japan)	1.5	Students Activities: Presentations and Discussions	3
Total Hours	-	37.5	

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