



# Sixteenth Marcel Grossmann Meeting

## Thursday, 8 July 2021

### The "Fall and Rise" of Betelgeuse: Block 1 (16:30 - 19:30)

-Conveners: Costantino Sigismondi

time	[id] title	presenter
16:30	[528] Fall and raise of Betelegeuse	SIGISMONDI, Costantino
16:30	[1032] Celestial mechanics and variable stars before the telescope: from the meridian line of the Vatican obelisk (1586-1817), to the stars on Santa Maria degli Angeli meridian line (1702) in Rome.	SIGISMONDI, Costantino
16:35	[967] The hypergiants VY Canis Majoris, Eta Carinae, V766 Centauri and the red supergiants Betelgeuse, Antares and Aldebaran in the 2.5K SGQ AAVSO database	SIGISMONDI, Costantino
16:35	[1016] Betelgeuse as didactic introductory tool for stellar variability, airmass computation and spectral analysis	SIGISMONDI, Costantino
16:35	[425] Visual observations of Betelgeuse near the solar conjunction	SIGISMONDI, Costantino
16:45	[775] Photometry of Betelgeuse at daylight	Dr NICKEL, Otmar
16:52	[960] The curious case of Betelgeuse	VAN LOON, Jacco
17:00	[1012] The Formation History of Betelgeuse	BOBRICK, Alexey
17:10	[831] The dust settles: Did Betelgeuse undergo a critical transition?	GEORGE, Sandip
17:25	[963] The Great Dimming of Betelgeuse as viewed by high-resolution spectra from the Stratosphere, and ground based TiO Photometry	HARPER, Graham
17:45	[950] Standing on the Shoulders of Giants: New Mass and Distance Estimates for Betelgeuse through Combined Evolutionary, Asteroseismic, and Hydrodynamic Simulations with MESA	JOYCE, Meredith
18:20	[618] Betelgeuse: Twinkle, Twinkle Bright Red Star How We Wonder What You Are?	Prof. GUINAN, Edward
18:50	[966] The Mysterious Great Dimming of Betelgeuse	DUPREE, Andrea