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Exploring "dark" side of galaxy formation in the early Universe

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I will report on the latest progress of observational studies of high-redshift galaxies using optical to radio facilities including Atacama Large Millimeter/submillimeter Array (ALMA), Subaru Telescope, Hubble Space Telescope (HST), Spitzer Space Telescope (SST) and James Webb Space Telescope (JWST). Specifically, I will focus on (1) the formation of super-massive black holes in the early universe and (2) the nature of near-infrared invisible, heavily obscured galaxies uncovered by ALMA with the assistance of gravitational lensing.

Auteur principal: KOHNO, Kotaro (University of Tokyo)

Orateur: KOHNO, Kotaro (University of Tokyo)

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