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Supernova and transient science with the telescope network including Subaru

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Recent development in transient observations has revealed a rich diversity of a transient zoo. Discovering new transients and characterize their natures requires global telescope networks involving various telescopes and instruments at different locations. The Subaru telescope has been playing unique roles in the network, including (1) the capability of performing a deep and wide survey to discover new transients with a different parameter space than other survey telescopes with the smaller diameter, (2) the potential in search for optical counterparts of transients discovered either in different wavelengths or different messengers (e.g., gravitational wave), and (3) deep follow-up observations of transients with different modes (e.g., polarization). In this talk, I will introduce some recent activities of transient observations including the findings obtained with the Subaru telescope in these aspects, especially focusing on the emerging diversity of supernova explosions that calls for a major update in the stellar evolution theory.

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