A27r Strategy of studying 'red galaxies' in near future and FMOS

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This presentation consists of two parts.

In the first part of this talk, I will summarize the presentations in this session, and discuss about strategy for studying 'red galaxies' in the near future. The session mainly covers observations of 'red galaxies' in the 'red' wavelength of near to far infrared (or submillimeter) and intends to resolve the degeneracy between 'old' and 'dusty' for the cause of the redness. However it is also expected that relations to other populations at the similar redshift and to progenitor/descendant would also be important keys to understand the evolution of galaxies.

In the second part, prospects of FMOS will be presented. FMOS is a 2nd generation common use instrument for the Subaru telescope and has a capability of 400 multiplicity in zJH band spectroscopy with OHS suppression mechanism. It is expected to be open soon, and would be one of very powerful instruments for the 'red galaxy' study. Thus I would like to present the current status and expected performance of FMOS, and discuss about good use for the 'red galaxy' studies.