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Synergies between SKA and LSST: the transient sky - 25'

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The LSST will be a wide-field 8m class telescope designed to obtain multi-band images over a substantial fraction of the sky every few nights. Multiple goals are expected in many relevant astrophysical areas, such as : (i) taking an inventory of the Solar System; (ii) mapping the Milky Way; (iii) exploring the transient universe; and (iv) probing dark energy and dark matter. The SKA and LSST offer significant synergies, in particular in time-domain astrophysics. Simultaneous observations of the transient sky carried out with SKA and LSST will allow us to study “known” and yet “unknown” classes of transient phenomena with unprecedented accuracy. The optical counterparts of a broad range of radio transients will be imaged by LSST in different bands and the spectroscopic follow-up of the most exciting candidates will be carried out with SOXS.

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Session Classification: Synergies between SKA and other facilities