

Seminarium Astrofizyczne
wtorek 24.01.2017 godz. 12:30
Hoża 69 pawilon sala 22

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**"Machine - learning identification of galaxies in the WISE × SuperCOSMOS
all-sky catalogue"**

The two currently largest all-sky photometric datasets, WISE and SuperCOSMOS, have been recently cross-matched to construct a novel photometric redshift catalogue on 70% of the sky. Galaxies were separated from stars and quasars through colour cuts, which may leave imperfections because different source types may overlap in colour space.

The aim of the presented work is to identify galaxies in the WISE × SuperCOSMOS catalogue through an alternative approach of machine learning. This allows us to define more complex separations in the multi-colour space than is possible with simple colour cuts, and should provide a more reliable source classification.

Serdecznie zapraszam,
Paweł Łuczak