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# 国台学术报告 NAOC COLLOQUIUM

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## TRILEGAL Milky Way Stellar Mock Catalogue for CSST

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Yang Chen is from Anhui University. He mainly works on stellar evolutionary models, atmosphere models, as well as stellar population synthesis together with his PARSEC collaborators. He got his bachelor degree from the University of Science and Technology of China in 2009 and spent two years of graduate study in USTC, with research interests on high-redshift galaxies. Then, he went to International School for Advanced Studies (SISSA) in 2011 and

obtained his PhD degree in 2015. From 2016 to 2020, he carried out his postdoctoral research at the University of Padova. After that, he accepted the position at Anhui University.

### Abstract

Mock catalogue based on stellar population synthesis is very important for CSST scientific projects. It provides 'close-to-reality' stellar contents with known physical parameters, therefore surpasses other mock techniques. The mock catalogue can be used for testing CSST data reduction pipeline, or to provide mock data for other CSST predictive studies before the real CSST data being available. In this talk, I introduce our stellar population synthesis tool TRILEGAL based on PARSEC stellar models and present our current effort to generate the mock stellar catalogue of the Milky Way for CSST.

