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Yat-sen Antarctic Small Infrared telescopes: tests and preliminary results

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Dome A, Antarctica is expected as the best site on earth for infrared observations, due to its cold atmosphere and excellent seeing. We have built two small telescopes as a pathfinder for infrared astronomy at Dome A. The telescopes have diameters of 15 cm, with fields of view of 1.2 square degrees. They are equipped with commercial InGaAs cameras and J/H filters, respectively. They have been installed at Dome A in Jan 2023, and have been observing since then. Here we will report the tests of the telescopes in China, and the preliminary results from Dome A.

Primary authors: MA, Bin (Sun Yat-sen University); Prof. FENG, Longlong

Presenter: MA, Bin (Sun Yat-sen University)

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