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# 国台学术报告 NAOC COLLOQUIUM

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**Time: Wednesday 2:30 PM, Jun.20th**    **Location: A601, NAOC**

## Extreme Quasars During the Cosmic Dawn

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Prof. Xiaohui Fan is a Regents' Professor in Astronomy at the University of Arizona. He received his Ph.D. from Princeton University in 2000, and joined the faculty at the University of Arizona in 2002. His works on observational cosmology and galaxy formation, and his main research interests include high-redshift quasars, supermassive black holes, cosmic reionization, large scale structure and large astronomical surveys.

### Abstract

The most distant quasars provide unique probes to the formation of the earliest supermassive black holes, the co-evolution of early massive galaxies and their central black holes and the reionization of the intergalactic medium. More than 100 quasars have been discovered at  $z > 6$ . I will present progress on surveys of the most distant quasars, focusing on three recent discoveries: the most distant quasar at  $z = 7.54$ ; the most luminous quasar at  $z > 6$  powered by a twelve billion solar mass black hole; and the first gravitationally lensed quasar during the epoch of reionization.



*All are welcome ! Tea and coffee will be served at 2:15 PM.*