

Gianluca Lombardi, ESO

Date: 4th November 2013

Time &Place: 12:00, Auditorium

TITLE

Defining reference atmospheric turbulence profiles for AO instruments performance simulation

ABSTRACT

Intensive Site Characterization campaigns have been performed in the past years to chose the site for the E-ELT. Various atmospheric turbulence profilers with different resolution and sensed altitude ranges have been used. Mixing long term statistics at low altitude resolution with high resolution data collected during short term campaigns allows to produce the reference profiles as input to the adaptive optics (AO) instrument performance estimators. The tentative methods for generating turbulence profiles representative of the expected observing conditions at Paranal and Cerro Armazones will be described.