

A Prism Spectrograph for the EChO Long wave (11 -16 micron) channel.

Poster : yes

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This presentation will describe the current design baseline and options for the EChO Long Wave Infrared (LWIR) channel. The 11 – 16 micron spectral region includes strong spectral features for numerous important molecular species such as carbon dioxide and water vapour, giving information that can assist with breaking degeneracies in temperature structure and composition. The LWIR channel operates at a moderate spectral resolution of at least $R=30$ and this presentation will describe how the optical and mechanical design of the module meets this and other requirements for EChO.