AN OPC-UA BASED ARCHITECTURE FOR THE CONTROL OF THE ESPRESSO SPECTROGRAPH @ VLT

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THE ESPRESSO SPECTROGRAPH @ VLT

- Fiber-fed, cross-dispersed, high-resolution echelle spectrograph for the ESO Very Large Telescope
- Designed to combine incoherently the light coming from up to 4 VLT Unit Telescopes
ESPRESSO CONTROL SYSTEM AND OPC-UA

- Control software architecture based on the VLT Control Software

- Control electronics based on industrial PLCs

- **OPC-Unified Architecture**: platform-independent standard through which various kinds of systems and devices can communicate by sending messages between clients and servers over TCP networks

- ESPRESSO uses OPC-UA as communication protocol between the instrument control software and the PLC device drivers