



Contribution ID: 35

Type: **not specified**

Searches for optical counterparts of Fast Radio Bursts: instrumentation and strategies

Thursday 8 May 2025 16:45 (35 minutes)

A number of models predict the existence of multiwavelength (MWL) counterparts of Fast Radio Bursts (FRBs) in the form of an afterglow or an impulsive event. An optical detection would provide critical information on the nature of the progenitor and would greatly enhance our understanding of the FRB phenomenon. Suitable instrumentation and/or strategies are required for sensitive searches of short-duration optical flashes down to or even below the millisecond time scale and for a suitable characterization of the potential populations of foreground events. Here we summarize some conclusions from the experience gained in the observing campaigns carried out in the last five years using our fast photon counting optical instruments.

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Session Classification: Tools (SW & HW) and prospects