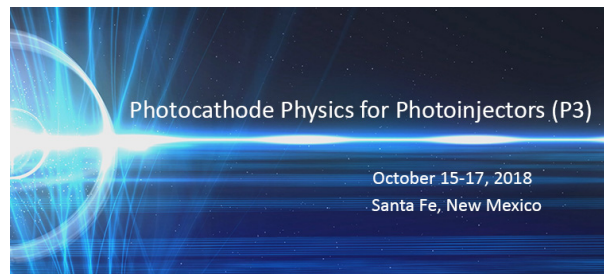


## Photocathode Physics for Photoinjectors 2018



Contribution ID: 43

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### Photocathode research at the UCLA Pegasus Laboratory

*Monday, October 15, 2018 1:50 PM (20 minutes)*

The Pegasus photoinjector laboratory has a variety of activities related to photocathode technology. In the upcoming months we plan to test the performances of advanced photocathode materials such as alkali antimonide cathodes in the high gradient radiofrequency photoinjector using a recently developed ultrahigh vacuum load-lock chamber. I will also present an update on a different project where a low energy electron beamline in combination with a tunable UV laser source is used to characterize metal cathodes and their response to short pulse excitation.

**Presenters:** Dr MUSUMECI, Pietro (University of California - Los Angeles); MUSUMECI, Pietro

**Session Classification:** Session 3

**Track Classification:** Session 7: Operations and Demonstrations: Normal conducting