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Intra-cavity beam control: a comparison of spatial light modulators and adaptive mirrors

Thursday, 14 July 2011 17:00 (2 hours)

<p>It is well understood that the fundamental mode of a cavity may be selected by suitable choice of intra-cavity amplitude or phase elements. If one wishes to dynamically control the mode, for example, to manage thermal aberrations, then intra-cavity elements that are controllable are required. Two such elements are adaptive mirrors and spatial light modulators (SLMs). In this poster we present early results on the intra-cavity use of SLMs, and highlight some expected and unexpected problems. We then compare our results to our first attempts at the use of an intra-cavity adaptive mirror.

Level (Hons, MSc,
   PhD, other)?

other

Consider for a student
   award (Yes / No)?

yes

Would you like to
 submit a short paper
 for the Conference
 Proceedings (Yes / No)?

Yes

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