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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)*

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,   
 &nbsp; PhD, other)?**

other

**Consider for a student   
 &nbsp; award (Yes / No)?**

yes

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

Yes

**Primary author:** Mrs BURGER, Liesl (National Laser Centre)

**Co-authors:** Prof. FORBES, Andrew (CSIR National Laser Centre); Dr LITVIN, Igor (CSIR National Laser Centre)

**Presenter:** Mrs BURGER, Liesl (National Laser Centre)

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