



Contribution ID: 272

Type: **Poster Presentation**

## Tuneable Gaussian to Flat-top resonator by amplitude beam shaping

*Tuesday, 9 July 2013 17:40 (1 hour)*

### Abstract content <br> &nbsp; (Max 300 words)

We outline a simple laser cavity comprising an opaque ring and a circular aperture that is capable of producing spatially tuneable laser modes, from a Gaussian beam to a Flat-top beam. The tune-ability is achieved by varying the diameter of the aperture and thus requires no realignment of the cavity. We demonstrate this principle using a digital laser with an intra-cavity spatial light modulator, and confirm the properties of the resonator experimentally.

### Apply to be<br> considered for a student <br> &nbsp; award (Yes / No)?

yes

### Level for award<br>&nbsp;(Hons, MSc, <br> &nbsp; PhD)?

PhD

### Main supervisor (name and email)<br>and his / her institution

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

No

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**Session Classification:** Poster1

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