## Photon number noise reduction in a two-photon micromaser

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## **Abstract**

Photon number noise reduction in a two photon micromaser is obtained by reducing the fluctuations of the pump. For a regular pump statistics, it is possible to obtain a maximum reduction of 95.6% in the photon number noise, with respect to a poissonian pump, slightly above the threshold. Beyond this region, we obtain a typical photon number noise reduction of about 57%.