

## Accepted Manuscript

Relative intensity noise reduction with fiber ring resonator

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PII: S0030-4018(18)30686-2  
DOI: <https://doi.org/10.1016/j.optcom.2018.08.003>  
Reference: OPTICS 23360

To appear in: *Optics Communications*

Received date : 27 February 2018  
Revised date : 14 June 2018  
Accepted date : 3 August 2018

Please cite this article as: H. Zhang, X. Chen, J. Yao, X. Shu, C. Liu, Relative intensity noise reduction with fiber ring resonator, *Optics Communications* (2018), <https://doi.org/10.1016/j.optcom.2018.08.003>

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- A fiber ring resonator modulates the optical spectrum and reduces the relative intensity noise at  $\text{FSR}/2$ .
- An experiment demonstrated a 5.2-dB decrease in the RIN at  $f_p$ , which reduces the standard deviation by 2.6-dB.
- The ARW was reduced from 870 to 580  $\mu\text{deg}/\text{h}^{1/2}$ , which amounts to a 1.8-dB reduction.

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