

**Erratum: Directional Bistability and Nonreciprocal Lasing
with Cold Atoms in a Ring Cavity
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The gain mechanism responsible for lasing was incorrectly identified as being due to Mollow scattering on the $|F = 2\rangle \leftrightarrow |F' = 2'\rangle$ transition (notation as in the original Letter). Subsequent experiments show that gain arises from Raman scattering between the $|F = 1\rangle$ and $|F = 2\rangle$ hyperfine ground states, driven by the MOT repump light [1]. The rest of the results and conclusions are unchanged.

- [1] G. Harvie, A. Butcher, and J. Goldwin, *In situ* Raman gain between hyperfine ground states in a potassium magneto-optical trap, *Phys. Rev. A* **100**, 033408 (2019).