

## عنوان مقاله:

Optical Filter Based on Sagnac Effect Using Optical Ring Resonator

# محل انتشار:

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### خلاصه مقاله:

Abstract- In this paper, a double optical ring resonator is used to demonstrate theoretically an optical filter response, that is based on phase shift in a Sagnac interferometer. The given filter structure permits the Sagnac rotation to control the filter response. It is shown that by changing the Sagnac rotation rate, we can tune the filter response for desired wavelengths. To increase the wavelength selectivity of the filter, the phase shift should be as small as .possible. For =0.1 rad., the obtained FWHM is 220 GHz

**کلمات کلیدی:** Ring Resonator, Bending Loss, Tunable Filter, FWHM

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