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A novel spectrometer based on the near-field Talbot effect

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By making use of advanced technique of the near-field Talbot effect, we design a novel spectrometer. Our method provides a compact and portable spectrometer according to the characteristic of the Talbot effect. Here, we propose the idea with the simulations done with reasonable values. With vibration and temperature adjustments, the high resolution over a range of a few nanometers can be obtained.

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