“Shot Noise Squeezing within Audio-frequency via 4WM in hot Rb Vapour”

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ABSTRACT

The experiment is based on optical nonlinearity\(^1\) in Rb atom due to the coherence between states in double Λ type system, as shown in figure a\(^2\). We find quantum noise squeezing starting below 10 KHz, as shown in figure b, which will promise importance in precise measurement. We firstly, according to the publication so far, achieve squeezing by using semiconductor laser instead of solid laser, which is significant in the application of quantum light source.
