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Development of optical resonant cavities for laser-Compton scattering

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The power enhancement by an optical resonant cavity is a novel method to achieve intense laser pulses for laser Compton scattering, however, it requires high precision control of the optical path to keep it on the resonance.

We have been developing a new scheme to avoid this difficulty using a feedback free optical cavity with self-reconating scheme.

In this talk, we report the status of the R&D of the new scheme. We also report about the status of photon generation experiment by laser Compton scattering at KEK.

Primary author: TAKAHASHI, Tohru (Hiroshima University)

Presenter: TAKAHASHI, Tohru (Hiroshima University)

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