

Abstract Submitted
for the MAR17 Meeting of
The American Physical Society

Floquet Spectrum in Weyl semimetal via a One-Photon Resonance JIE CAO, Hohai University — Weyl semimetal such as AsTa is a new kind of topological material which is protected from small perturbation. In the vicinity of one Weyl point, the linear dispersion indicates that the low-energy excitation is a 3D massless quasi-particle. Usually a photon perturbation could cause a dynamic gap at the resonance energy, however, in Weyl semimetal we find that the dynamic gap stays gapless no matter the form of the perturbation. We also investigate the topology of the dynamic gapless spectrum.

Jie Cao
Hohai University

Date submitted: 12 Nov 2016

Electronic form version 1.4