

Abstract Submitted  
for the HAW09 Meeting of  
The American Physical Society

$\pi^0$  to two-photon decay in lattice QCD EIGO SHINTANI, Osaka University, JLQCD COLLABORATION —  $\pi^0 \rightarrow \gamma\gamma$  decay, which is induced by the axial anomaly. Using the overlap fermion we explicitly calculate the amplitude for the  $\pi^0 \rightarrow \gamma^*\gamma^*$  process. Our result nicely reproduces the prediction from the axial anomaly in the on-shell limit thanks to the exact chiral symmetry on the lattice, and also give a useful information for the lattice calculation of hadronic light-by-light scattering diagram for muon g-2.

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Date submitted: 02 Jul 2009

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