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Neutral pion polarizabilities from four-point functions

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We report a lattice QCD simulation of electric and magnetic polarizabilities of π^0 using the four-point function method. The connected diagrams are evaluated on the $24^3 \times 48$ lattice using Wilson action with $a=0.1$ fm and pion mass from 1100 to 370 MeV. Results are compared with existing calculations from the background field method.

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