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Determination of the linear polarization for pseudo-scalar meson photoproduction experiments in Hall-B at JLab[1] ARTHUR SABINTSEV, The George Washington University, CLAS COLLABORATION — The JLab CLAS g9a experiments are double polarization measurements that have accumulated photoproduction data using a linearly polarized, tagged photons incident on a longitudinally polarized, frozen spin butanol target (FROST). Linearly polarized photons were produced via coherent bremsstrahlung from an electron beam incident on an oriented diamond crystal.[2] The analysis of the resulting coherent peaks was used to determine photon polarization which agree with phenomenological calculations.[3]

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[2]U. Timm, Fortschritte der Physik, **17**, 765 (1969).
[3]A. Natter, *et al.*, Nuc. Inst Meth B **211**, 465 (2003).

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