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Spin Polarization Measurments of Co_{1-x}– Pt_x alloys by Point Contact Andreev Reflection Spectroscopy MUHAMMAD FAIZ, RAGHAVA PANGULURI, B. NADGORNY, Department of Physics, Wayne State University, Detroit, MI 48201, CHRISTIAN KAISER, IBM Almaden Research Center, San Jose, California 95120 and Physikalisches Institut, RWTH-Aachen, Aachen, Germany, STUART S. P. PARKIN, IBM Almaden Research Center, San Jose, California 95120 — Recently Kaiser *et al.*,[1] compared the spin polarization measured by spin resolved tunneling spectroscopy (Tedrow-Meservey) and the magnetic moment of Co_{1-x}– Pt $_x$ alloys. We have measured the transport spin polarization, P_c and magnetic properties of the same series of samples using Point Contact Andreev Reflection Spectroscopy (PCAR). All films with x varying from 0 to 100% and a thickness of ∼1000 Å were grown on Si substrates covered with ∼250 Å of SiO_2 by magnetron sputtering. We will present a correlation between spin polarization and magnetization for this series of magnetic alloys and compare our results with the ones obtained in Ref. [1]. 1. C. Kaiser *et al.*, PRL **94** 247203 (2005).

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