## Abstract Submitted for the DPP12 Meeting of The American Physical Society

An Electron Cyclotron Emission Imaging (ECEI) System for HL-2A¹ CALVIN DOMIER, SHAO CHE, MICHAEL HUFF, NEVILLE C. LUH-MANN, JR., University of California at Davis, ZHONGBING SHI, XUANTONG DING, YI LIU, QINGWEI YANG, Southwestern Institute of Physics — A high resolution Electron Cyclotron Emission Imaging (ECEI) system is under development for the HL-2A tokamak in Chengdu, China. The diagnostic instrument has a tunable RF range of 75 to 135 GHz, and will generate 192 channel (24 vertical by 16 radial) images of the 2nd harmonic X-mode radiation from the HL-2A plasma, and is equipped with both vertical and horizontal zoom capabilities. Fabrication and characterization are scheduled to be completed by November 2012, with installation and commissioning on HL-2A to take place in early 2013. Details regarding the optical and electronic performance of the system will be presented.

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