1017-11-125 Heekyoung Hahn* (hahn@math.rochester.edu), Dept. of Mathematics, University of Rochester, Rochester, NY 14627. On zeros of Eisenstein series for genus zero Fuchsian groups. Let $\Gamma \leq SL_2(\mathbb{R})$ be a genus zero Fuchsian group of the first kind with ∞ as a cusp, and let E_k^{Γ} be the holomorphic Eisenstein series of weight 2k on Γ that is nonvanishing at ∞ and vanishes at all the other cusps (provided that such an Eisenstein series exists). Under certain assumptions on Γ and on choice of its fundamental domain we prove that there is a constant $C_{\Gamma,\mathcal{F}}$ depending on Γ and the fundamental domain \mathcal{F} , but not the weight k such that all but possibly $C_{\Gamma,\mathcal{F}}$ of zeros of E_k^{Γ} lie on a certain subset $\{z \in \mathfrak{H} : j_{\Gamma}(z) \in \mathbb{R}\}$, where \mathfrak{H} is the complex upper half-plane and j_{Γ} is the canonial hauptmodul for Γ . (Received February 17, 2006)