1003-14-222 **Milagros Izquierdo** (`miizq@mai.liu.se`), Matematiska Institutionen, Linköpings Universitet, 581 83 Linköping, Sweden, and **Jose Luis Estevez*** (`jestevez@mat.uned.es`). *Non-normal pairs of NEC groups.*

By a *NEC (non-euclidean crystallographic) group* we shall mean a discrete, cocompact subgroup Γ of the group $\text{Aut}(\mathcal{H})$ of all the automorphisms of the non-Euclidean plane $\mathcal{H}$. Given an NEC group Γ, we denote by $\mathbf{T}(\Gamma)$ the *Teichmüller space of* Γ, it is homeomorphic to a real ball of dimension $d(\Gamma)$. We denote be $Max(\Gamma)$ the set of points in $\mathbf{T}(\Gamma)$ which represent maximal groups. $Max(\Gamma)$ is empty if there exists an NECgroup Γ' such that $\Gamma \leq \Gamma'$ and $d(\Gamma) = d(\Gamma')$. It is very interesting to study those NEC groups with empty $Max(\Gamma)$ because this fact helps us to determine whether a finite group G can be the full group of automorphisms of a Klein surface $\mathcal{H}/\Gamma$ or not. Bujalance established these pairs (Γ, Γ') when Γ is normal in Γ'. In this paper we compute the pairs of such groups in the case when Γ is non-normal in Γ'. The corresponding problem for Fuchsian groups was solved by Singerman. (Received August 31, 2004)