1056-20-645   **Leah Childers*** (`leah@math.lsu.edu`), Lockett Hall, Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803. *Simply intersecting pairs in the mapping class group.*

The Torelli group, $\mathcal{I}$, is the subgroup of the mapping class group consisting of elements that act trivially on the homology of the surface. There are three types of elements that naturally arise in studying $\mathcal{I}$: bounding pair maps (BP-maps), separating twists, and simply intersecting pair maps (SIP-maps). Historically the first two types of elements have been the focus of the literature on $\mathcal{I}$, while SIP-maps have received relatively little attention until recently, due to an infinite presentation of $\mathcal{I}$ introduced by Andrew Putman that uses all three types of elements. We will show that the subgroup generated by SIP-maps is an infinite index subgroup of $\mathcal{I}$ and discuss further properties of this subgroup and its elements. (Received September 15, 2009)