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Title:	On some decompositions of the 3-strand singular braid group				
Authors:	Gongopadhyay, Krishnendu (/jspui/browse?type=author&value=Gongopadhyay%2C+Krishnendu)				
Keywords:	Braid group Monoid of singular braids Singular pure braid group				
Issue Date:	2020				
Publisher:	Elsevier B.V.				
Citation:	Topology and its Applications, 283.				
Abstract:	Let SBn be the singular braid group generated by braid generators σi and singular braid generators τi, 1≤i≤n−1. Let STn denote the group that is the kernel of the homomorphism that maps, for each i, σi to the cyclic permutation (i,i+1) and τi to 1. In this paper we investigate the group ST3. We obtain a presentation for ST3. We prove that ST3 is isomorphic to the singular pure braid group SP3 on 3 strands. We also prove that the group ST3 is semi-direct product of a subgroup H and an infinite cyclic group, where the subgroup H is an HNN-extension of Z2∗Z2.				
URI:	https://www.sciencedirect.com/science/article/pii/S0166864120303400?via%3Dihub (https://www.sciencedirect.com/science/article/pii/S0166864120303400?via%3Dihub) http://hdl.handle.net/123456789/3167 (http://hdl.handle.net/123456789/3167)				
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