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Title:	Virtually symmetric representations and marked Gauss diagrams
Authors:	Singh, Manpreet (/jspui/browse?type=author&value=Singh%2C+Manpreet)
Keywords:	Virtual knot Gauss diagrams
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Abstract:	In this paper, we define the notion of a virtually symmetric representation of representations of virtual braid groups and prove that many known representations are equivalent to virtually symmetric. Using one such representation, we define the notion of virtual link groups which is an extension of virtual link groups defined by Kauffman. Moreover, we introduce the concept of marked Gauss diagrams as a generalisation of Gauss diagrams and their interpretation in terms of knot-like diagrams. We extend the definition of virtual link groups to marked Gauss diagrams and define their peripheral structure. We define π_1 -groups and prove that every group presented by a 1-irreducible π_1 -presentation of deficiency 1 or 2 can be realised as the group of a marked Gauss diagram.
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