Library
Indian Institute of Science Education and Research Mohali

DSpace@IISERMohali / **Thesis & Dissertation** / **Master of Science** / **MS Dissertation by Int. PhD** / **MS Dissertation by MP-2017**

Please use this identifier to cite or link to this item: http://hdl.handle.net/123456789/3664

Title:	On Knots and the Alexander Polynomial
Authors:	Bhaumik, Jnanajyoti
Issue Date:	May-2020
Publisher:	IISERM
Abstract:	The main aim of this thesis is to study the Alexander's Polynomial and it's construction. This polynomial is a knot invariant, that means, if we pick isotopic knots, they will have the same value. We will look at two methods of construction of the infinite cyclic cover of a knot group and in the process come up with an invariant - The Alexander's Polynomial as well as deduce a lower bound for the unknotting number of a knot. The subsequent chapters deal with applications of the Alexander Polynomial and alternate procedures through which we can construct the Alexander Polynomial.
URI:	http://hdl.handle.net/123456789/3664
Appears in Collections:	MS Dissertation by MP-2017

Files in This Item:

File	Description	Size	Format	
Ms Thesis Mp17008.pdf		3.21 MB	Adobe PDF	View/Open

Show full item record