
DROR BAR-NATAN, University of Toronto, Mathematics
Simple, Concise, Powerful, and Not Understood

I will give a simple and concise description of a strong and fast to compute knot invariant which seems to actually see some topology. Your homework will be to explain why it makes sense for a topologist to invert a presentation matrix for the Alexander module of a knot and consider quadratic combinations of the entries of said inverse.