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**Federico Galetto\*** ([f.galetto@csuohio.edu](mailto:f.galetto@csuohio.edu)). *Finite group actions on free resolutions.*

Many ideals inside polynomial rings come naturally equipped with group actions. Under mild assumptions, such actions extend to minimal free resolutions of the ideals, providing interesting interpretations of the associated Betti numbers. While describing these actions can in general be a difficult problem, I will present an algorithm that makes the computational approach a viable solution for finite groups. (Received January 13, 2022)