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Cesar Galindo* (cn.galindo1116@uniandes.edu.co) and **Corey Jones**. *Equivariant subcategories of fusion categories*. Preliminary report.

We describe all fusion subcategories of the equivariantization of group action on a fusion category. As an application, we classify the Hopf subalgebras of a family of semisimple Hopf algebras of Kac-Paljutkin type and recover Naidu-Nikshych-Witherspoon classification of the fusion subcategories of the representation category of a twisted quantum double of a finite group. (Received August 26, 2021)