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On the Chevalley property of a finite-dimensional group algebra and its Drinfeld double

This is a report on joint work with Hui-Xiang Chen. A Hopf algebra has the Chevalley property, if the tensor product of any two simple modules is semisimple. Let G be a finite group and H the group algebra of G over some algebraically closed field. We give necessary and sufficient conditions on G guaranteeing that the Drinfeld double $D(H)$ has the Chevalley property. We also show that H and $D(H)$ have the Chevalley property if and only if the tensor product $V \otimes V^*$ is semisimple for every simple H -, respectively $D(H)$ -module.