

Which graded algebras  
are projectivizations?

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Question Is every <sup>connected, unital</sup> graded algebra the projectivization  
of a group?

Is every <sup>connected</sup> graded Lie algebra the projectivization  
of a quandle?

What if those questions are asked about  
quadratic algebras / Lie algebras?

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Given a <sup>unital</sup> connected graded algebra  $A$ , let  $G$   
be the group of units of  $\hat{A}$ . What  
is  $\text{proj } G$ ?

↑ The graded completion  
of  $A$ .