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On the linear growth of the p -rank of the Class Group: the pro- p groups point of view.

This is a joint work with Farhid Hajir. Genus theory may produce some situations where the p -rank of the p -class group grows linearly with the degree. In this talk, thanks to an idea of Ershov and a result of Schmidt, we explain this phenomena by using the description by generators and relations of a certain pro- p Galois group.