Volumes of unit balls of Lorentz spaces

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Lorentz spaces are generalisation of Lebesgue spaces. The volume of the ball of a finite-dimensional Lebesgue space is very well known since the times of Dirichlet. However, there is no similar formula for the volume of unit ball in Lorentz spaces. The aim of the talk is to show methods for calculating this volume for some parameters as well as asymptotical results.

Joint work with Jan Vybíral.