

# Elliptic equations with exponential nonlinearity combined with convection term

Luiz Fernando de Oliveira Faria (lfofaria@gmail.com)  
Universidade Federal de Juiz de Fora

**Abstract.** In this talk, we will present an existence result of positive solutions for a nonlinear elliptic Dirichlet problem in dimension  $N$  involving the  $N$ -Laplacian. The nonlinearity considered depends on the gradient of the unknown function and an exponential term. Our approach is based on the approximation scheme, where we consider a new class of normed spaces of finite dimension.

## References

- [1] de Araujo, Anderson L. A.; Faria, Luiz F. O.; *Positive solutions of quasilinear elliptic equations with exponential nonlinearity combined with convection term.* J. Differential Equations **267** (2019), no.8, 4589-4608.