

SEMINÁRIO DE ANÁLISE

Positive ground states for a subcritical and critical coupled system involving Kirchhoff-Schrödinger equations

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Abstract. In this talk we prove the existence of positive ground state solution for a class of linearly coupled systems involving Kirchhoff-Schrödinger equations. We study the subcritical and critical case. Our approach is variational and based on minimization technique over the Nehari manifold. We also obtain a nonexistence result using a Pohozaev identity type. This is a joint work with J. M. do Ó (UnB) and G. M. Figueiredo (UnB).

References

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- [2] D. Lü, J. Xiao, *Ground state solutions for a coupled Kirchhoff-type system*, *Math. Methods Appl. Sci.*, **38** (2015), 4931–4948.
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