

## Existence and Uniqueness for some Non-Resonant Quasilinear Elliptic Systems with Variable Exponents

Anass Ouannasser<sup>1</sup>

In this paper, we study the solvability to the left of the first eigenvalue for some non- resonant quasilinear elliptic problems involving variable exponents. We first prove the existence of at least a weak solution for some non-variational systems by using a surjectivity result for pseudomono-tone operators. Furthermore, under additional conditions, we show that the solution is unique. Secondly, we deal with non-resonant related equations and obtain existence and uniqueness results by using a variational approach.

## References:

- [1] https://doi.org/10.11948/2013001
- [2] https://doi.org/10.15446/recolma.v53n1.81036
- [3] https://arxiv.org/abs/2003.08274

<sup>&</sup>lt;sup>1</sup>Mohammed V University - Faculty of Sciences in Rabat, Mathematics anass.ouannasser@um5r.ac.ma