Comparison Principle for Weakly-coupled Non-cooperative Elliptic and Parabolic Systems

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In this talk we will consider the validity of comparison principle for linear and quasi-linear weakly coupled systems of elliptic and of parabolic PDE. The concept is based on the spectral properties of the system. Furthermore, comparison principle for the corresponding elliptic system (when $t$ is fixed) yields some local (w.r.t. $t$) conditions for the validity of comparison principle for the parabolic system. Some applications are given as well.

References

