

Workshop on Potential Theory and Applications, 2012, Szeged, Hungary
<http://www.math.u-szeged.hu/wspota2012/>

Vector equilibrium problems with semidefinite interaction matrices and masses in a compact set

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The paper deals with the vector logarithmic potential equilibrium problem with semidefinite interaction matrix. The questions of existence, uniqueness and characterisation of the solution are discussed. The existence and uniqueness results are obtained in the most general setting.