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**About the Solvability of Complementarity Problems and Variational  
Inequalities Defined by Integral Operators**

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In many practical problems considered in sciences and engineering, generally related to equilibrium or to unilateral boundary condition, we have to study solvability of variational inequalities or of complementarity problems defined by integral operators. Also, we have variational inequalities or complementarity problems with eigenvalues. Related to this reality we will present in this talk some topological methods applicable to the study of solvability of complementarity problems and of variational inequalities in Hilbert Spaces. The main chapters of our talk are:

1. Variational inequalities defined by integral operators, exceptional families of elements, the Harker-Pang type condition and solvability.
2. Scalar asymptotic derivability and a fixed point theorem applicable to complementarity problems defined by integral operators.
3. Scalar compactness, condition and variational inequalities.
4. Quasi-bounded operators and complementarity problems defined by integral operators and depending of parameters (i.e., with eigenvalues).
5. Comments

Some open subjects will be also presented as stimulus for new developments related to the interaction between nonlinear analysis and complementarity problems defined by integral operators.