## Kolloquium

Institut für Mathematik Universität Innsbruck

## Vladimír Müller, Czech Academy of Sciences, Prague On joint numerical radius



Let  $T_1, ..., T_n$  be bounded linear operators on a complex Hilbert space H. We study the question whether it is possible to find a unit vector  $x \in H$  such that  $|\langle T_j x, x \rangle|$  is large for all j. Thus we are looking for a generalization of a well-known fact for n = 1 that the numerical radius w(T) of a single operator T satisfies  $w(T) \ge ||T||/2$ .

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