

**Microlocal defect distributions in Sobolev spaces;  
Unbounded multipliers**

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We use microlocal defect functionals (H-distributions) to analyze possible strong convergence of weakly convergent sequences in Sobolev spaces. Classical results state that a weakly convergent sequence converge strongly iff for all weakly convergent sequences in dual (test) space associated H-distribution is zero. Involving unbounded multipliers test space becomes smaller.

This is a joint work with Stevan Pilipović and Ivana Vojnović