ICM 1998, Berlin, Aug. 18–27

Abstracts of Short Communications and Posters

Section:

10. Partial Differential Equations

1991 MS Classification: 35, 42, 46
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Boundedness of Pseudodifferential Operators

Let $a(x, D)$ be the pseudodifferential operator whose symbol is denoted by $a(x, \xi)$. We shall present some results for boundedness of $a(x, D)$ on various function spaces in the case that $a(x, \xi)$ is Hölder continuous. Here we shall apply the theory of wavelets to decompose $a(x, \xi)$.