

Sobolev (linear functionals)

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Let H denote $H^1_0(U)$ where U an open bounded set.

0 – denotes zero boundary condition

My question is about H^* or $H^{-1}(U)$.

If given a f in H^* and f in $L^2(U)$ but not told what

the H, H^* pairing is are we supposed to assume pairing

given by the $L^2(U)$ inner product? ((as we do with distributions))

thanks

don