Erratum to: Sobolev Duals in Frame Theory and Sigma-Delta Quantization

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In Definition 4.2, the r th order Sobolev dual F should be defined as

$$F = (ED^{-r}(D^*)^{-r}E^*)^{-1}ED^{-r}(D^*)^{-r},$$

instead of $F = (E\nabla^{-r}E^*)^{-1}E\nabla^{-r}$. Note that D does not commute with its adjoint. Likewise, all occurrences of ∇^{-r} in the proof of Theorem 4.3 should be replaced by $D^{-r}(D^*)^{-r}$. The matrix $ED^{-r}(D^*)^{-r}E^*$ is invertible since D is invertible and E has full rank.

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