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*Some estimates for the X-ray transform*

Given a suitable function  $f$  on  $\mathbb{R}^d$  and a line  $l$  in  $\mathbb{R}^d$ , the  $X$ -ray transform of  $f$  at  $l$  is defined to be the integral of  $f$  over  $l$ . We discuss various mixed-norm estimates for this operator.