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$$\begin{aligned} & \int_{\sqrt{\gamma}}^{\frac{1}{\sqrt{\gamma}}} \left| \tilde{f}_n - f_n \right| \leq \Delta \\ & \int_{\sqrt{\gamma}}^{\frac{1}{\sqrt{\gamma}}} \left| \tilde{f}_n - f_n \right| \leq \Delta \end{aligned}$$