$\mathrm{S}_4, n_q = 92$
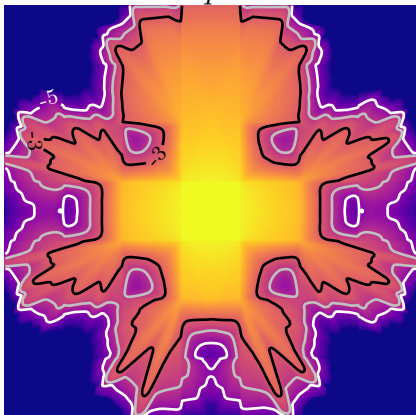
$\log_{10} \phi(x, y)$