## The temperature dependence of the pion form factor

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Abstract: We calculate the electromagnetic form factor of the pion in quenched lattice QCD. The non-perturbatively improved Sheikoleslami-Wohlert lattice action together with the  $\mathcal{O}(a)$  improved current are used to reduce discretisation effects. We obtain form factors for pion masses as low as  $m_{\pi} = 360 \ MeV$ . From the low  $Q^2$  behaviour, we extract the pion radius and use (quenched) chiral perturbation theory to extrapolate the result towards the physical pion mass. In addition, we present the first finite temperature lattice results of the form factor and discuss possible differences.