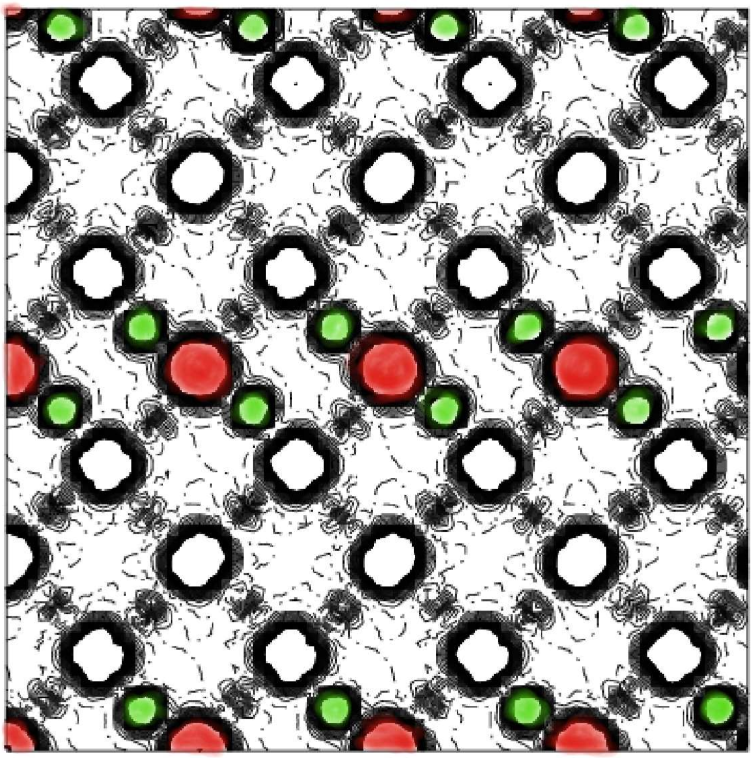
$La_{0.5}Ca_{0.5}MnO_3$ spin density

xz plane



xy plane