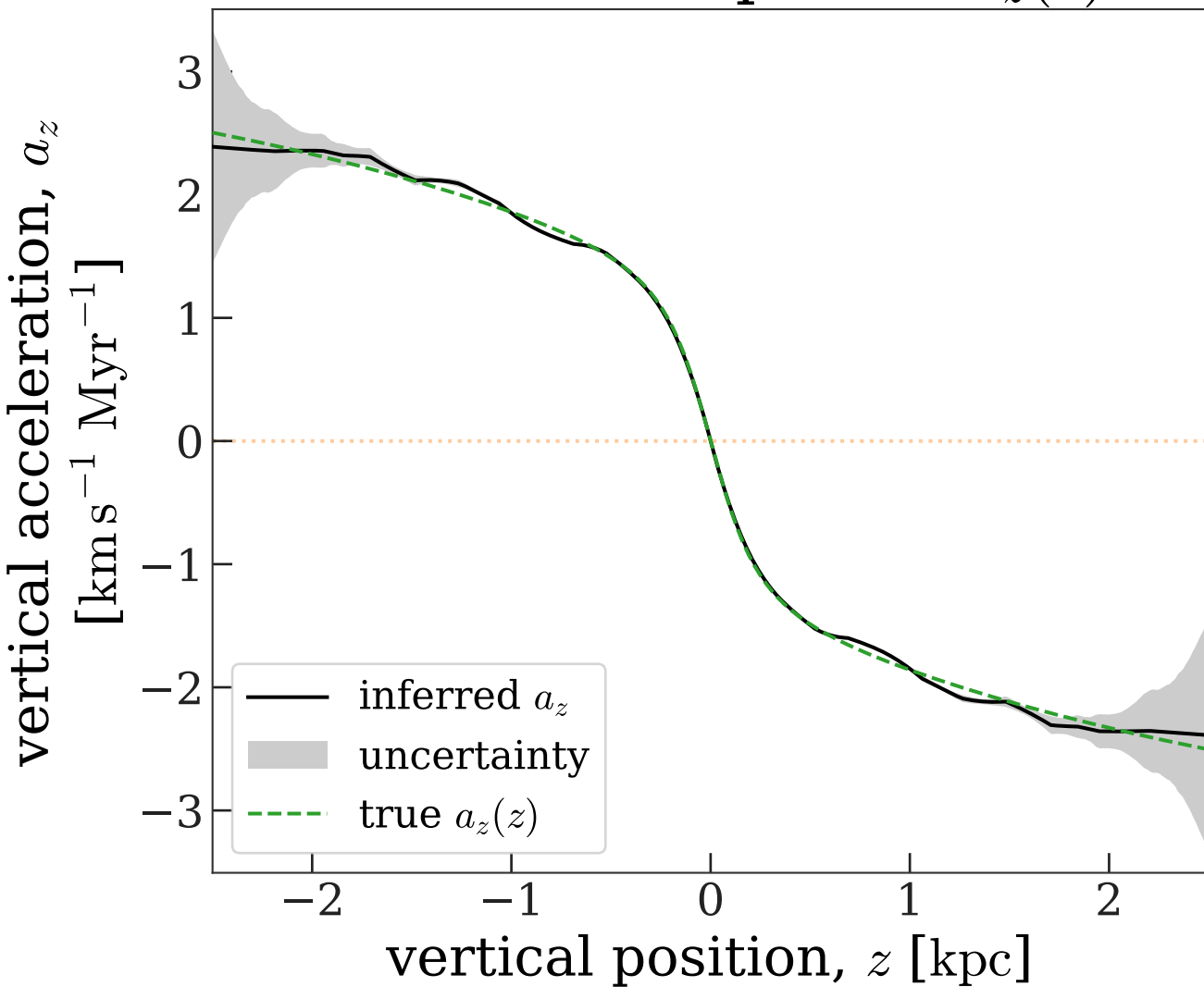


acceleration profile  $a_z(z)$



vertical action  $J_z$

