$t_{lag}$ = 30 s

**State *i*** **State *f***
**Before mixing** **After mixing**

$N_i = 6$ $N_f = (4 + 1)$
$q_f < q_i$

LES grid box

❌ Neglected droplet

🔵 Droplets before mixing

🔴 Droplets after mixing    🟡 Droplets activated during mixing

• Aerosol particle