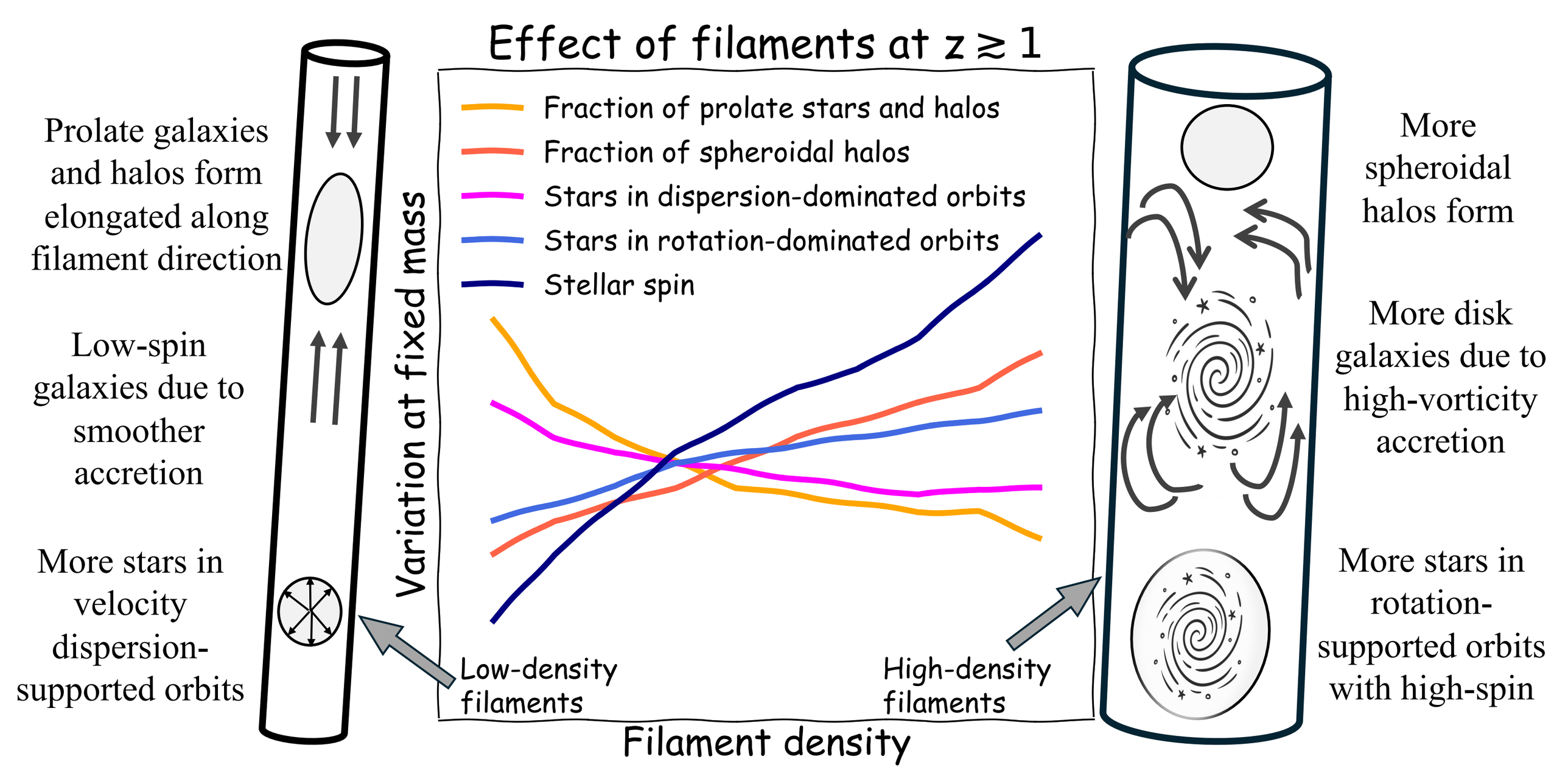
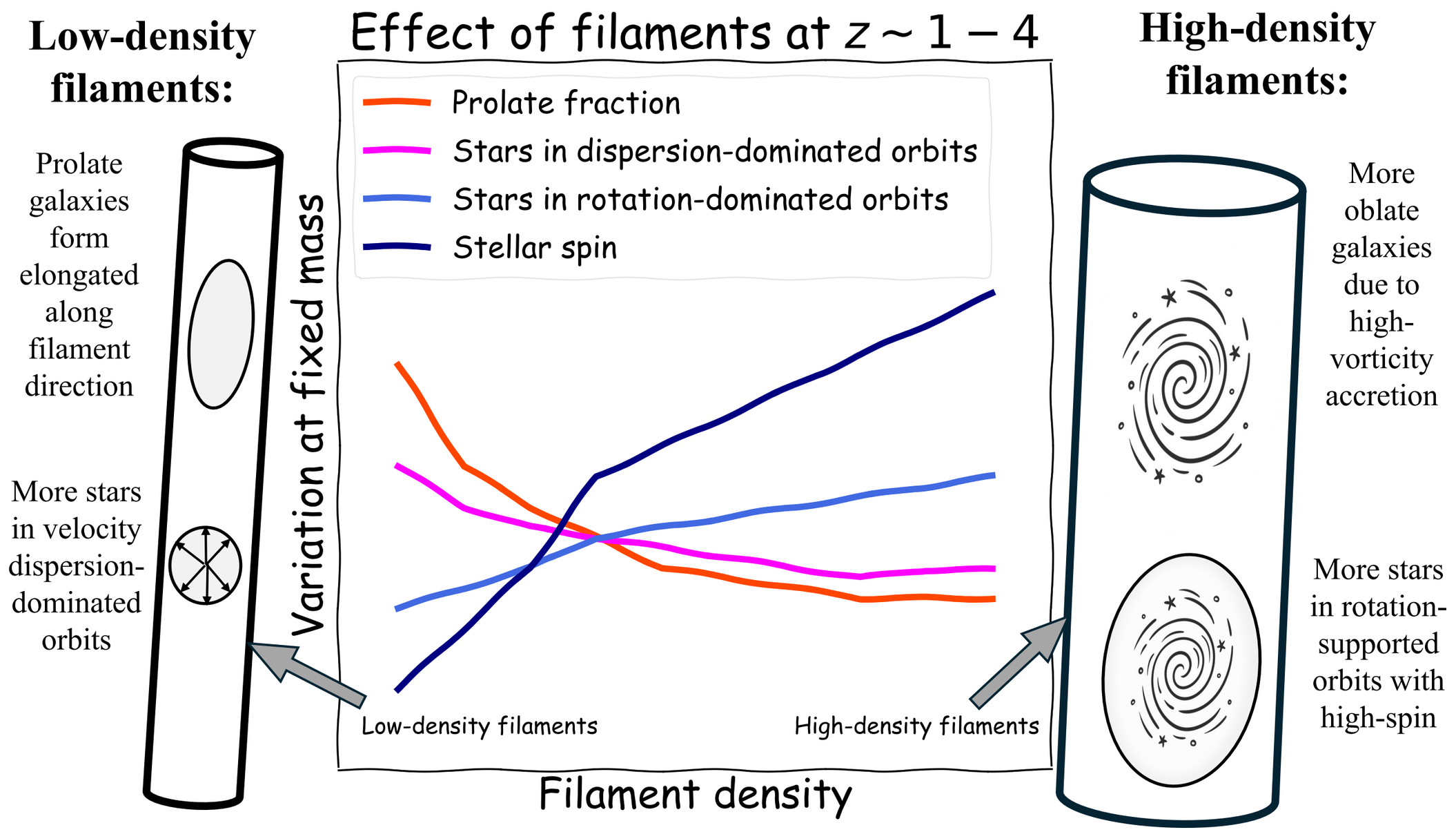

Effect of filaments at z ≳ 1
Prolate galaxies and halos form elongated along filament direction
Low-spin galaxies due to smoother accretion
More stars in velocity dispersion-supported orbits
Fraction of prolate stars and halos
Fraction of spheroidal halos
Stars in dispersion-dominated orbits
Stars in rotation-dominated orbits
Stellar spin
Variation at fixed mass
Low-density filaments
High-density filaments
Filament density
More spheroidal halos form
More disk galaxies due to high-vorticity accretion
More stars in rotation-supported orbits with high-spin


Low-density filaments:
Prolate galaxies form elongated along filament direction
More stars in velocity dispersion-dominated orbits
Effect of filaments at $z \sim 1-4$
Prolate fraction
Stars in dispersion-dominated orbits
Stars in rotation-dominated orbits
Stellar spin
Variation at fixed mass
Low-density filaments
High-density filaments
Filament density
High-density filaments:
More oblate galaxies due to high-vorticity accretion
More stars in rotation-supported orbits with high-spin