Posterior mean rate of branching event with parent state BE
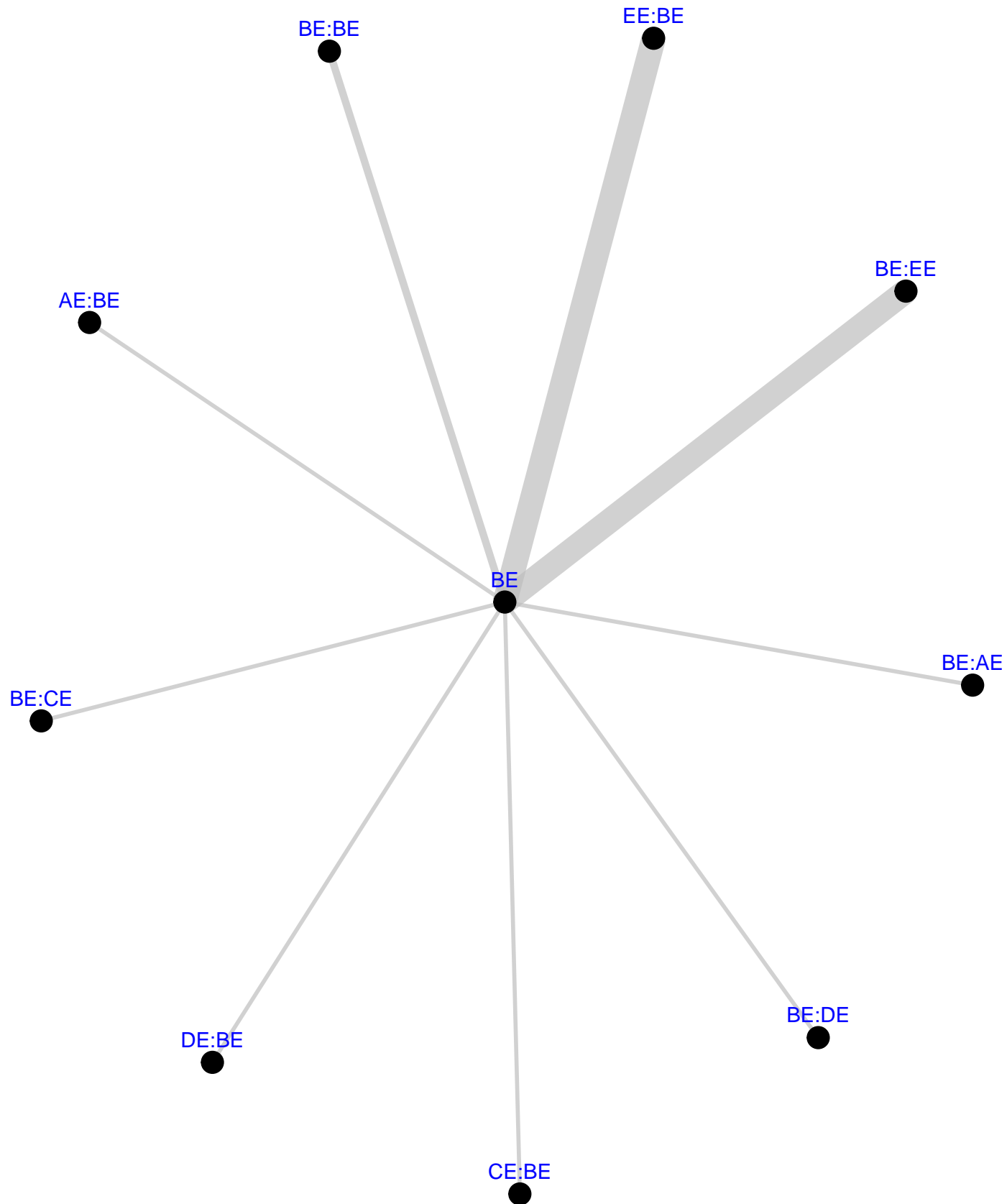
Posterior mean count of branching event with parent state BE