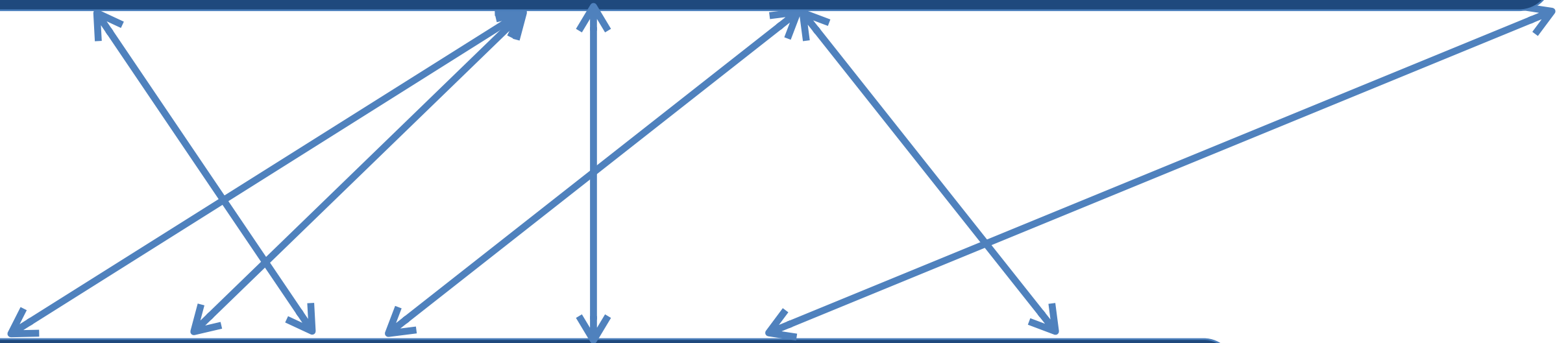


$u$  unemployed workers

$v$  vacancies



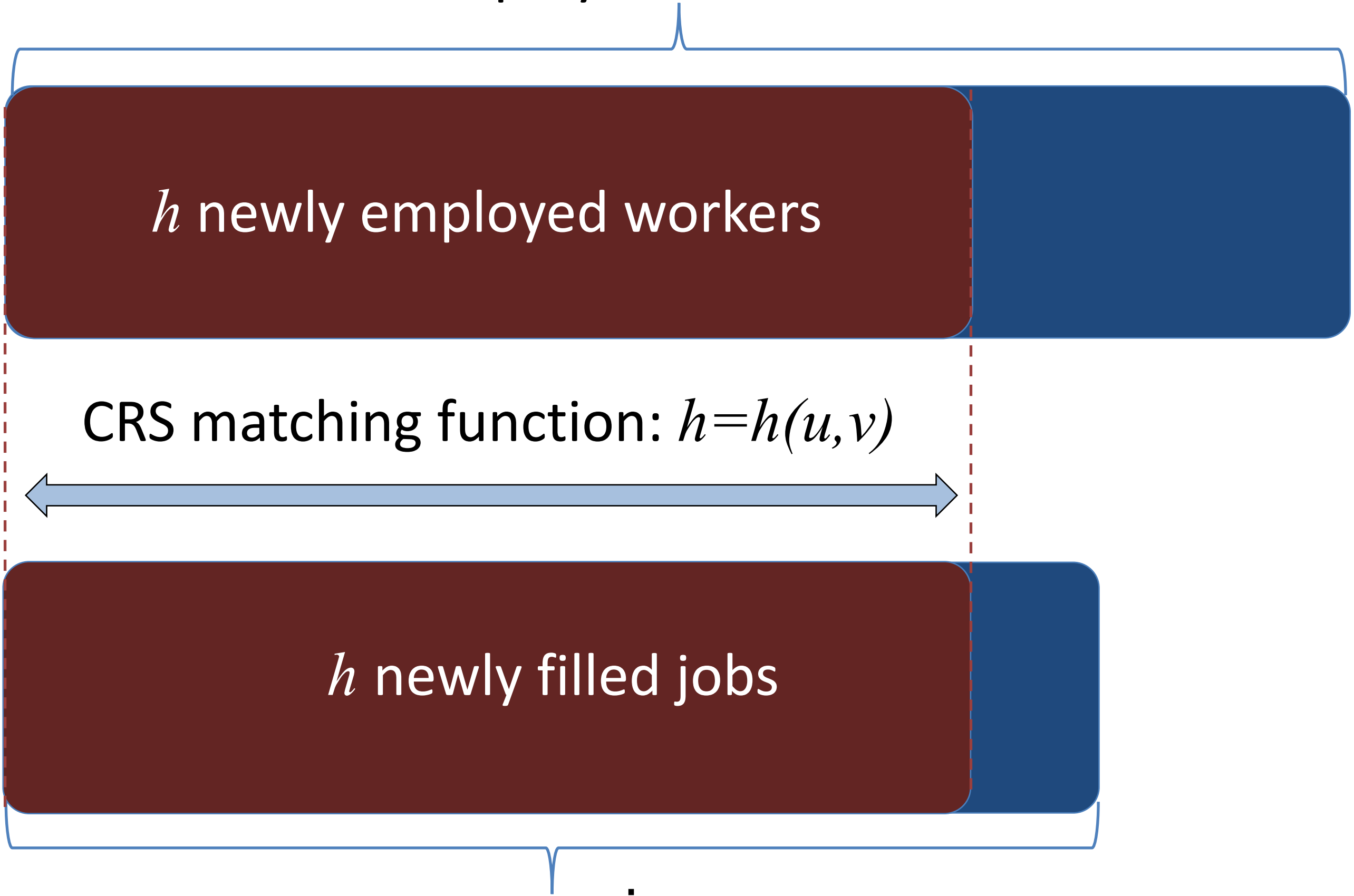
$u$  unemployed workers

$h$  newly employed workers

CRS matching function:  $h = h(u, v)$

$h$  newly filled jobs

$v$  vacancies



tightness:  $\theta = v / u$

$u$  unemployed workers

job-finding probability:

$$f(\theta_+) = h/u = h(1, \theta)$$

CRS matching function:  $h = h(u, v)$

vacancy-filling probability:

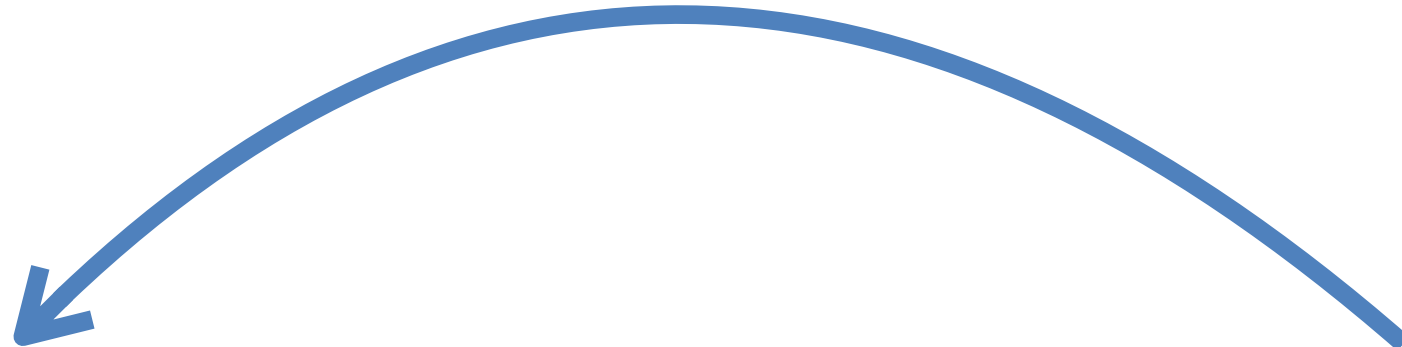
$$q(\theta_-) = h/v = h(1/\theta, 1)$$

$v$  vacancies

$1 - u_t$  employed workers

$u_t$  unemployed workers

$$f(\theta_t) \times u_t$$



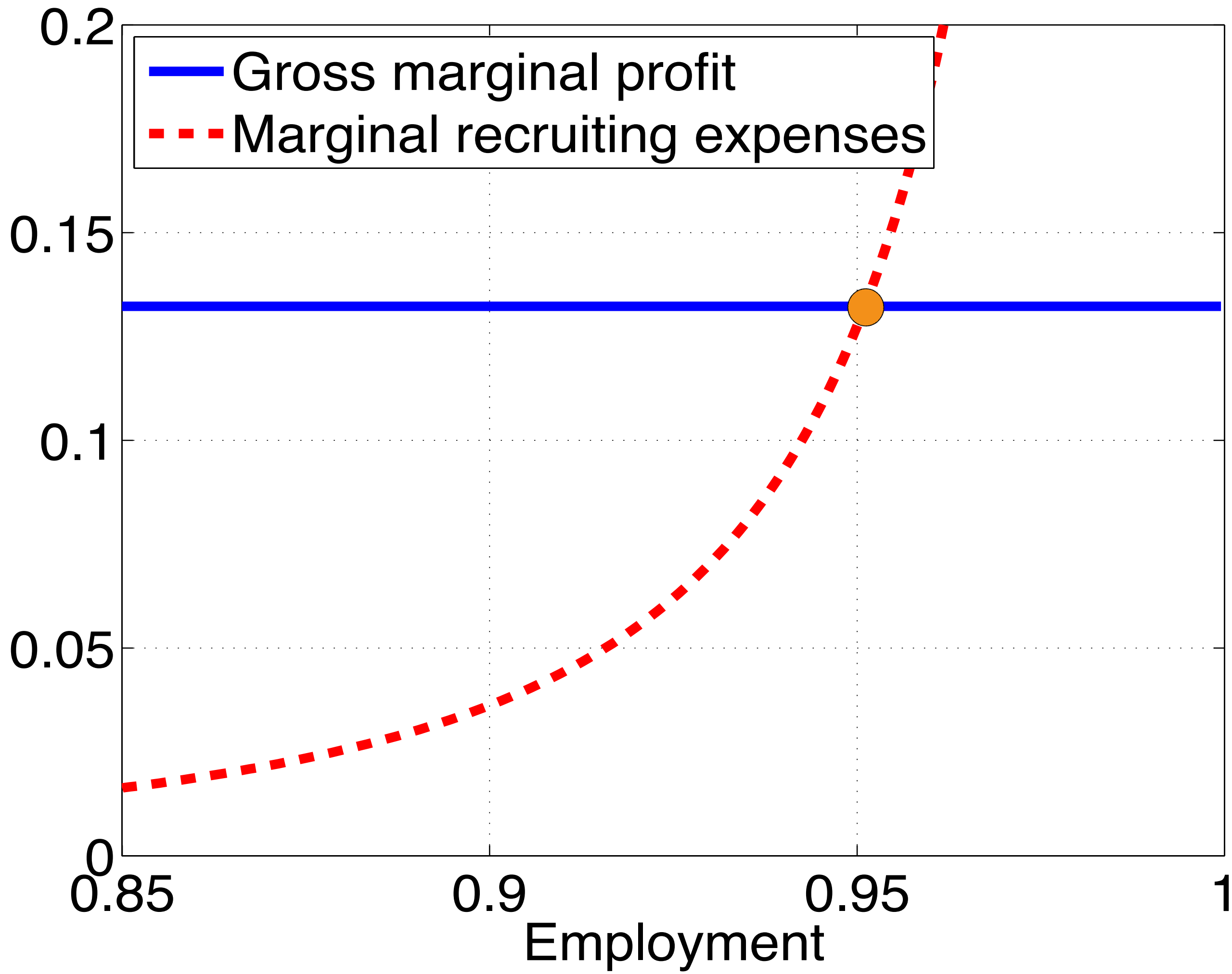
$n_t$  employed workers

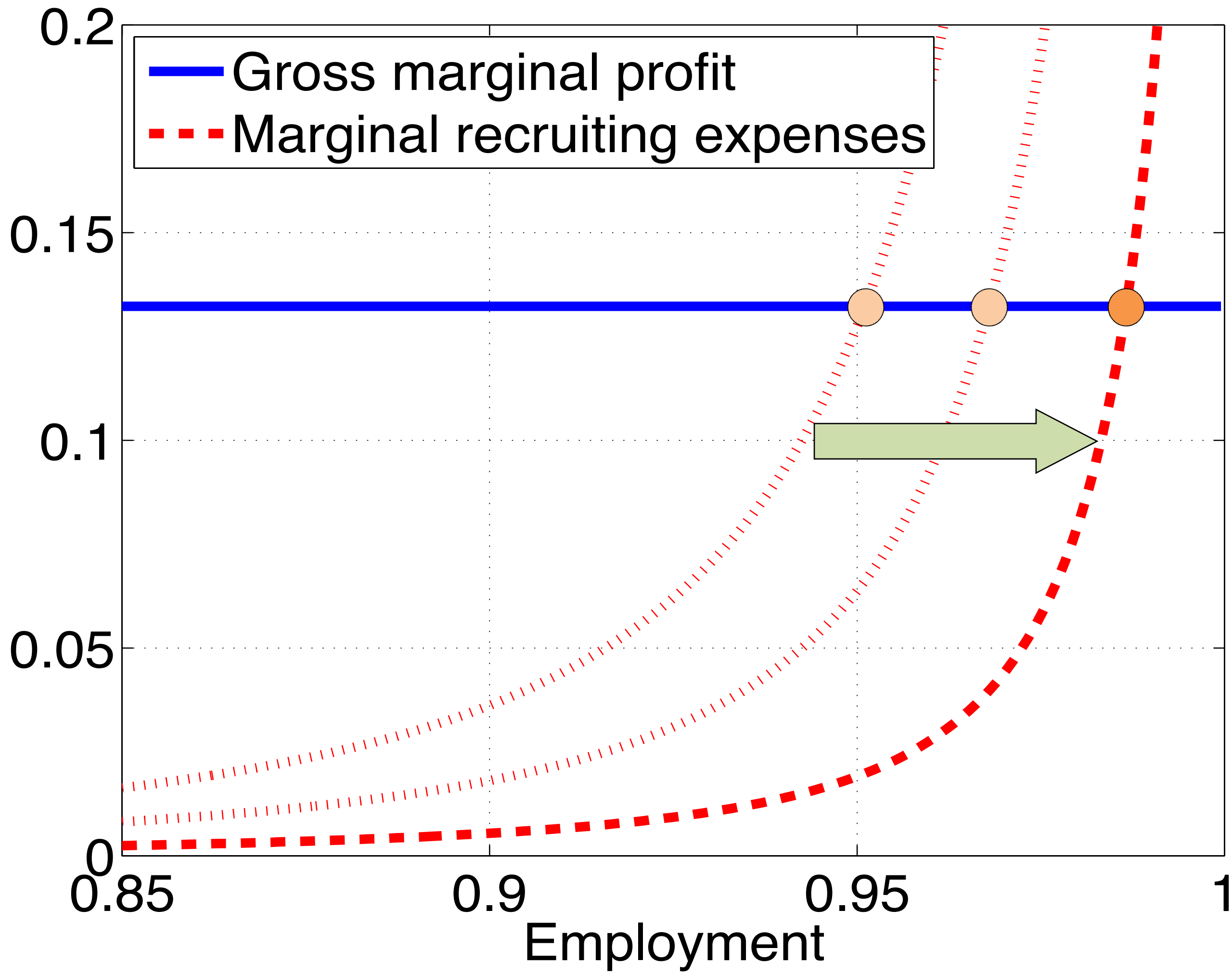
$u_t$  unemployed workers

$n_t$  employed workers

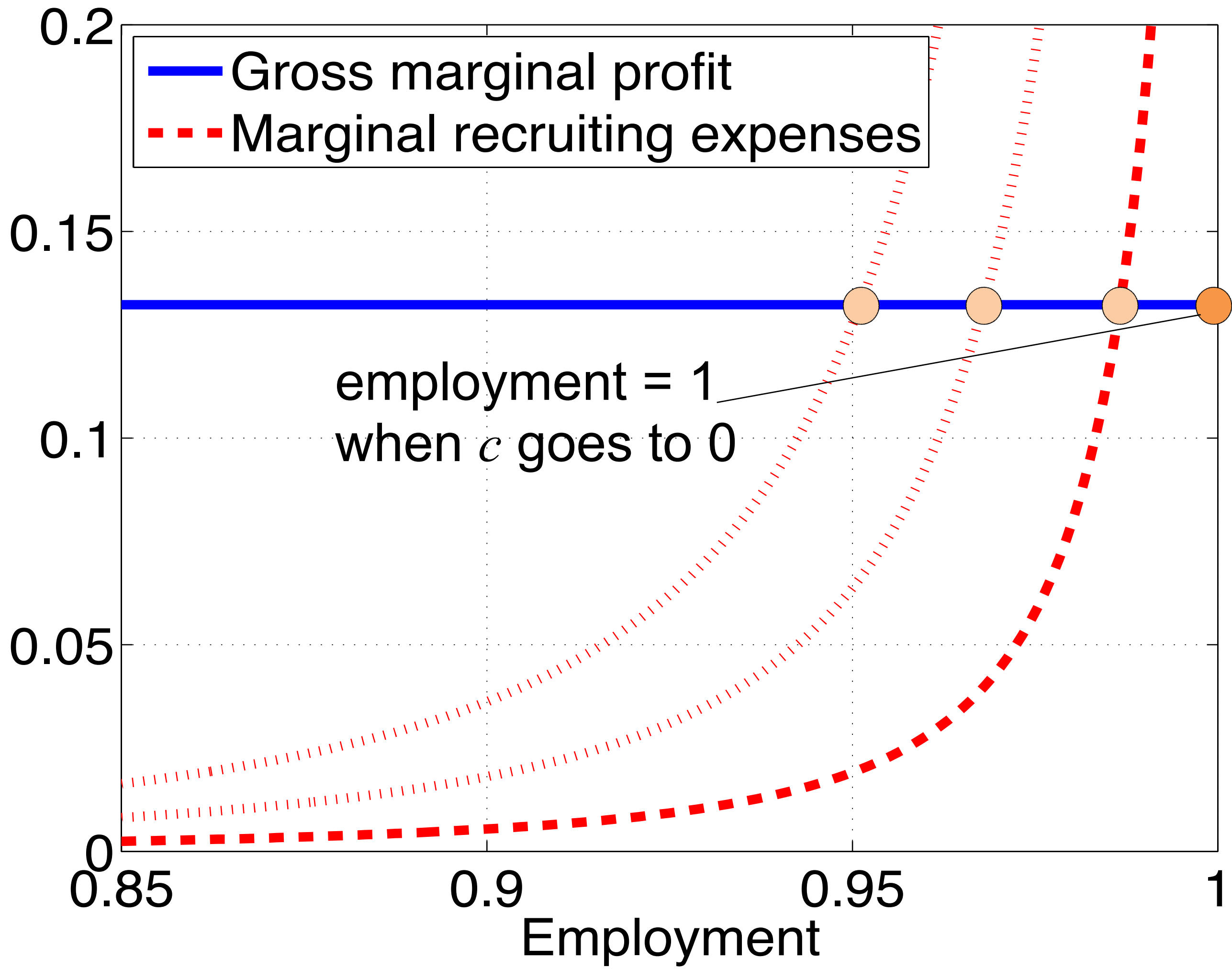
$u_{t+1}$  unemployed workers

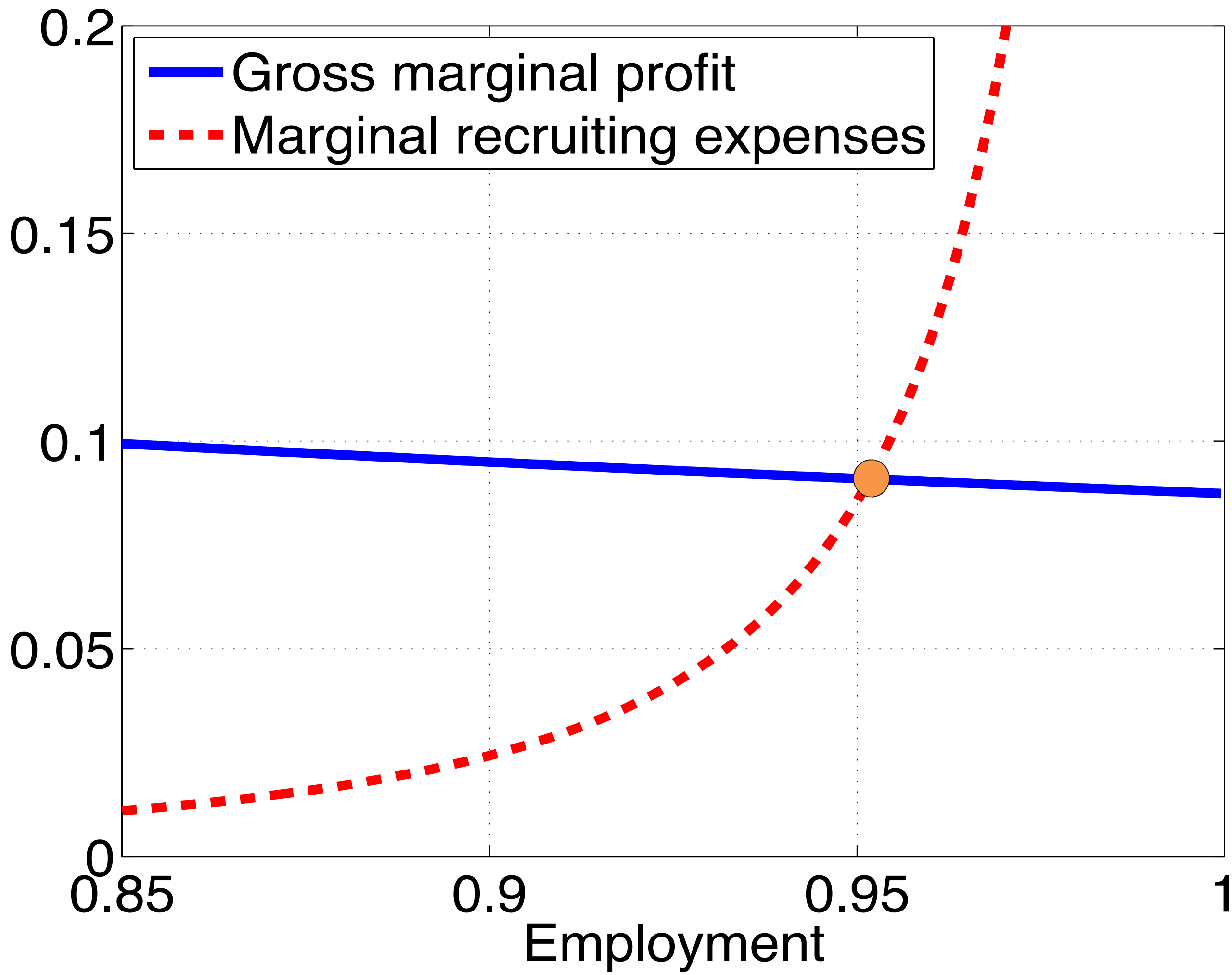

$$-s \times n_t$$

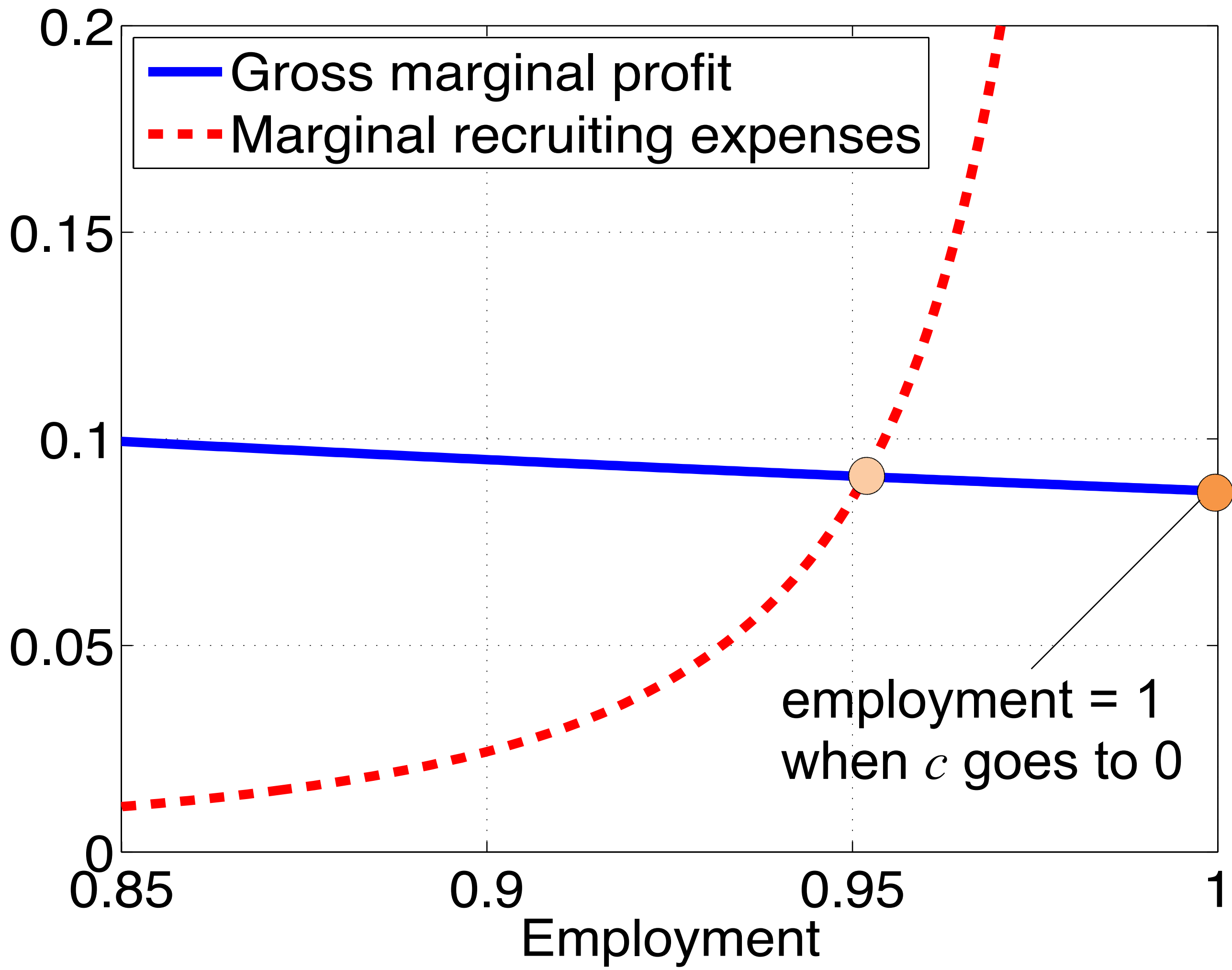


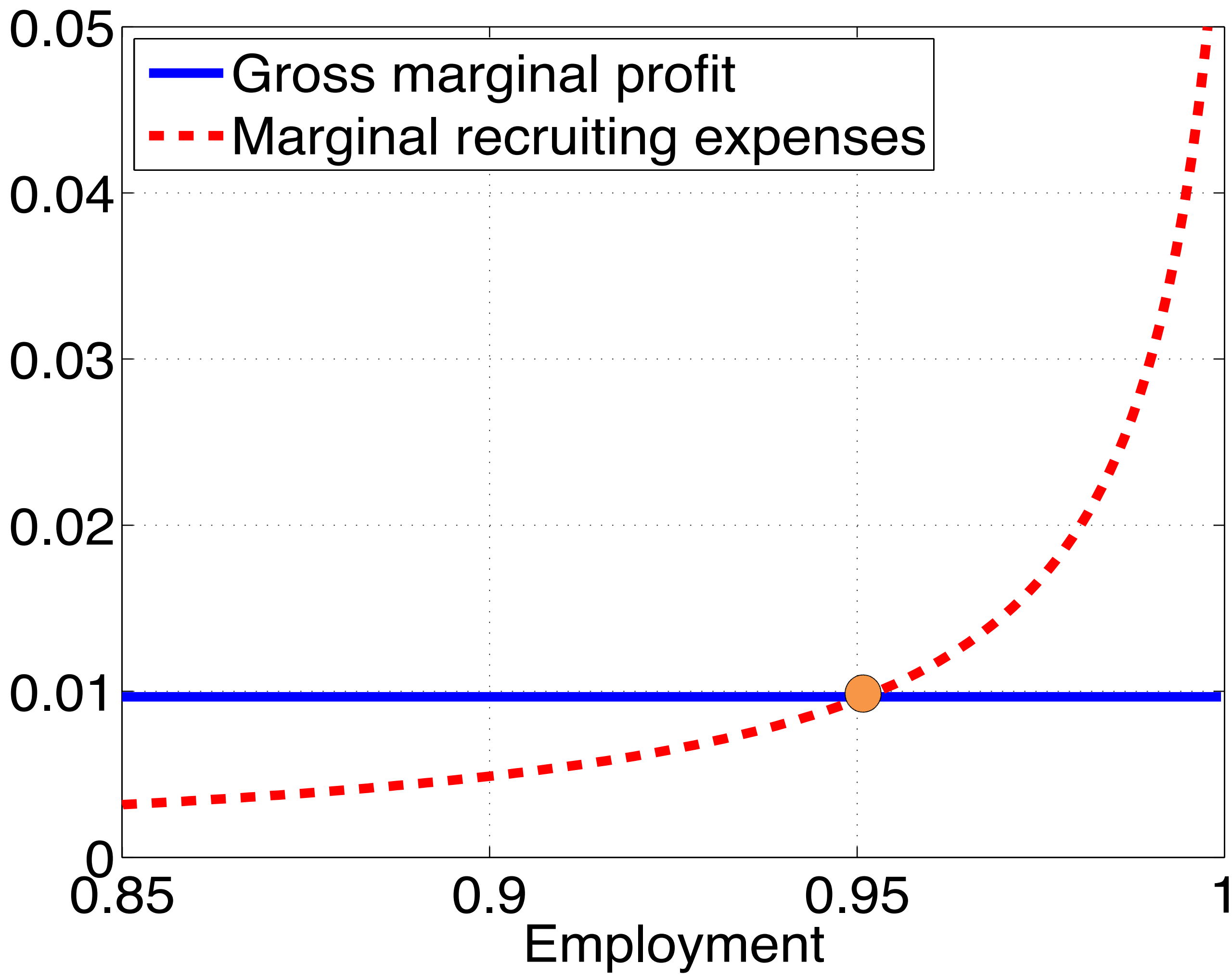


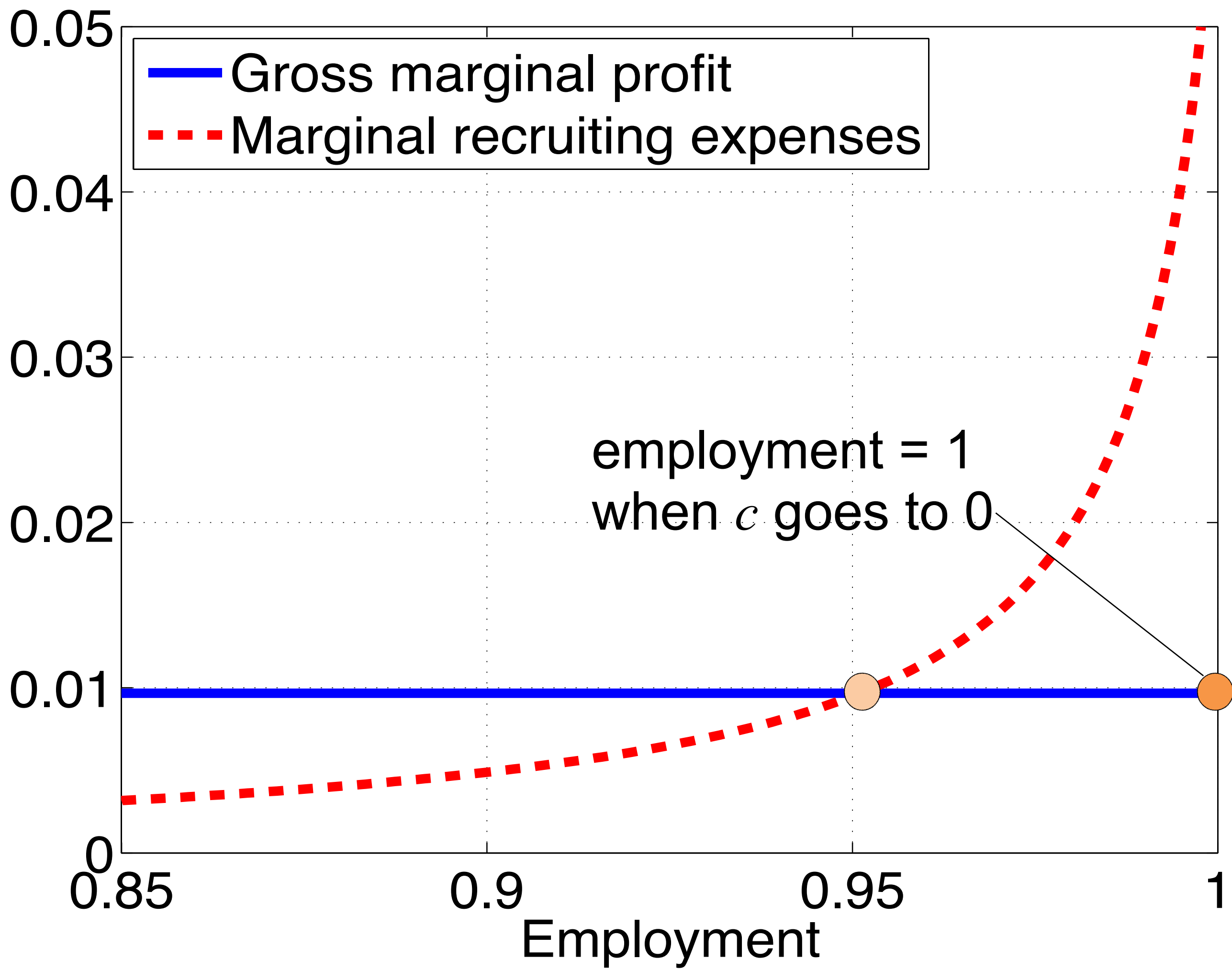


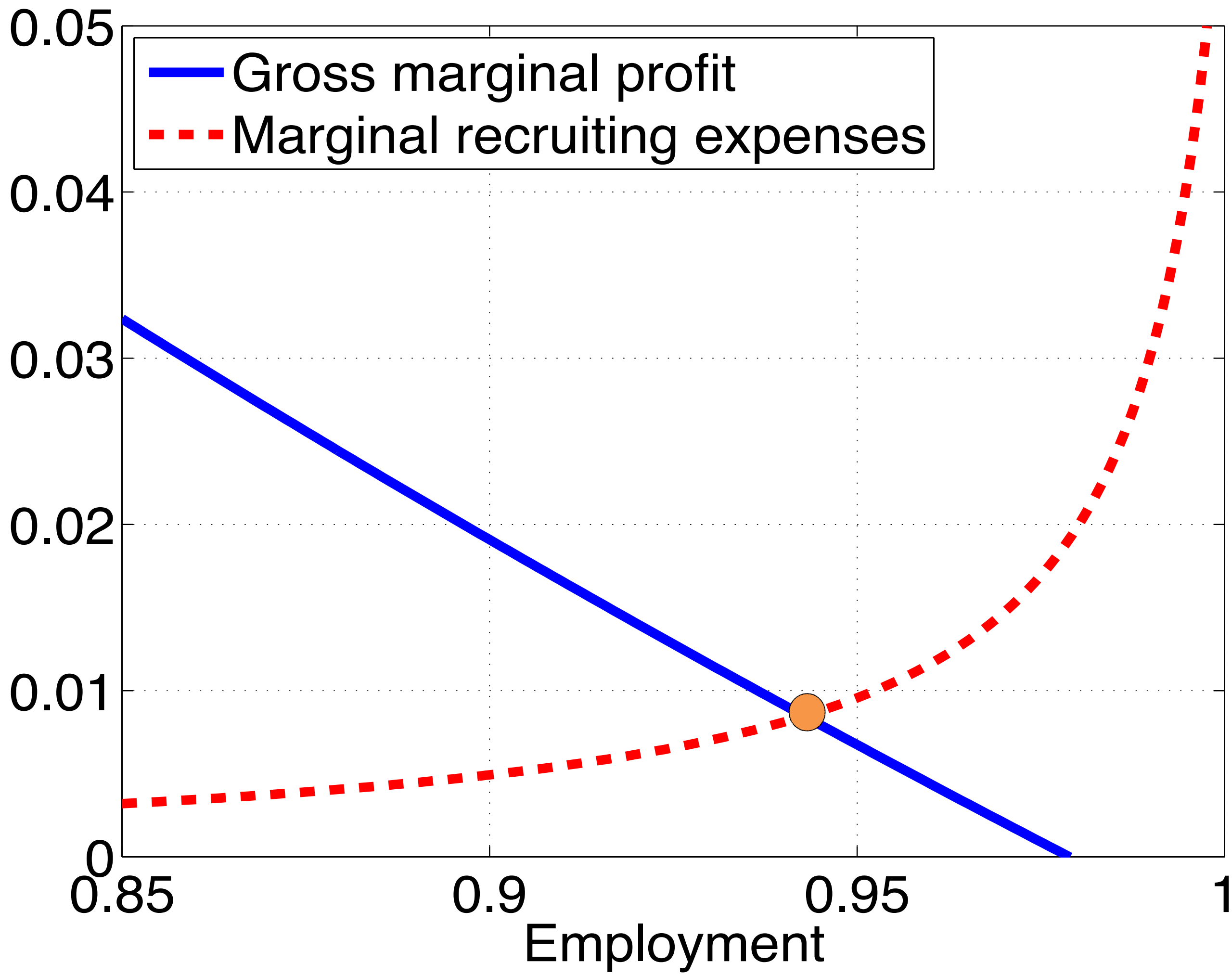


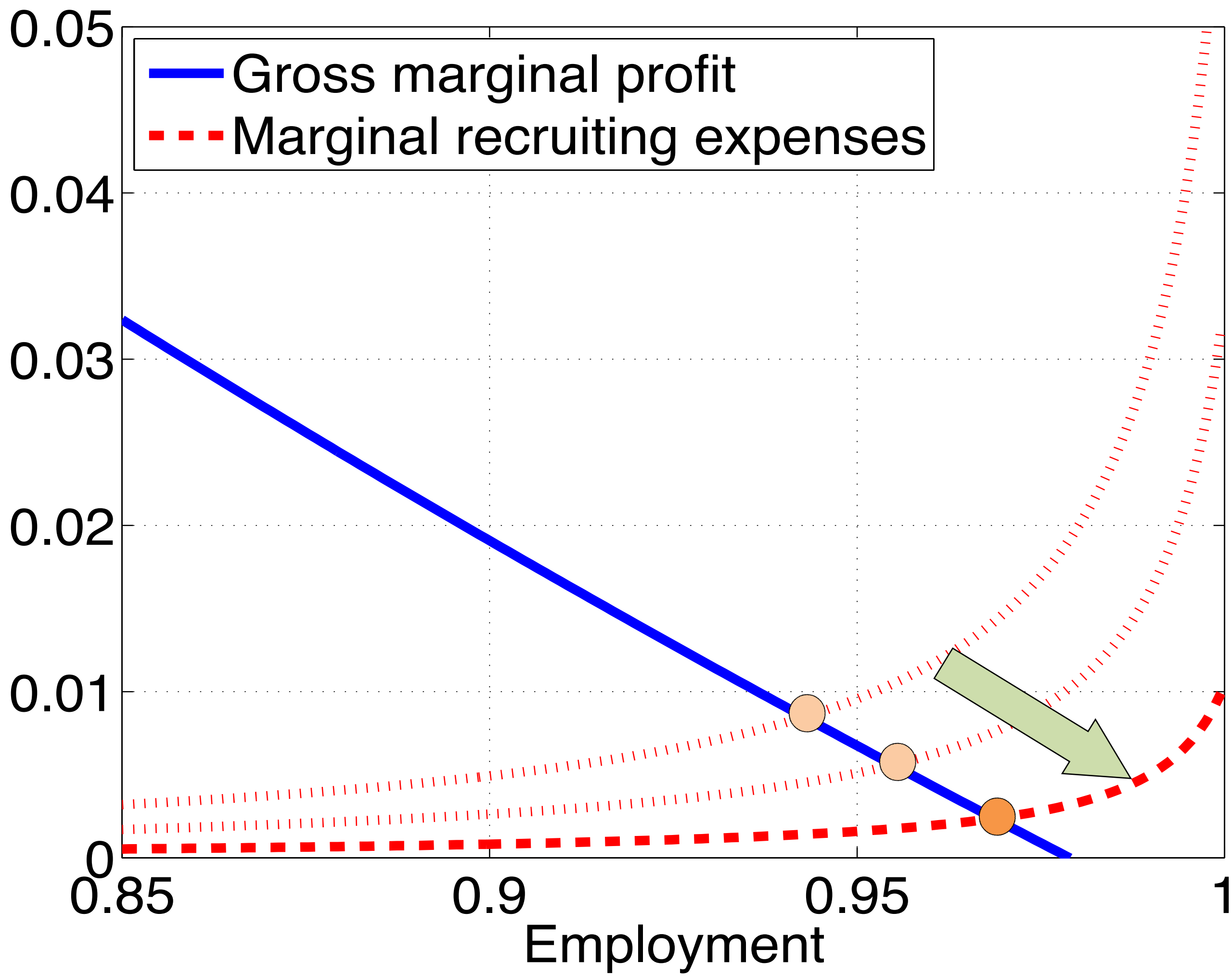


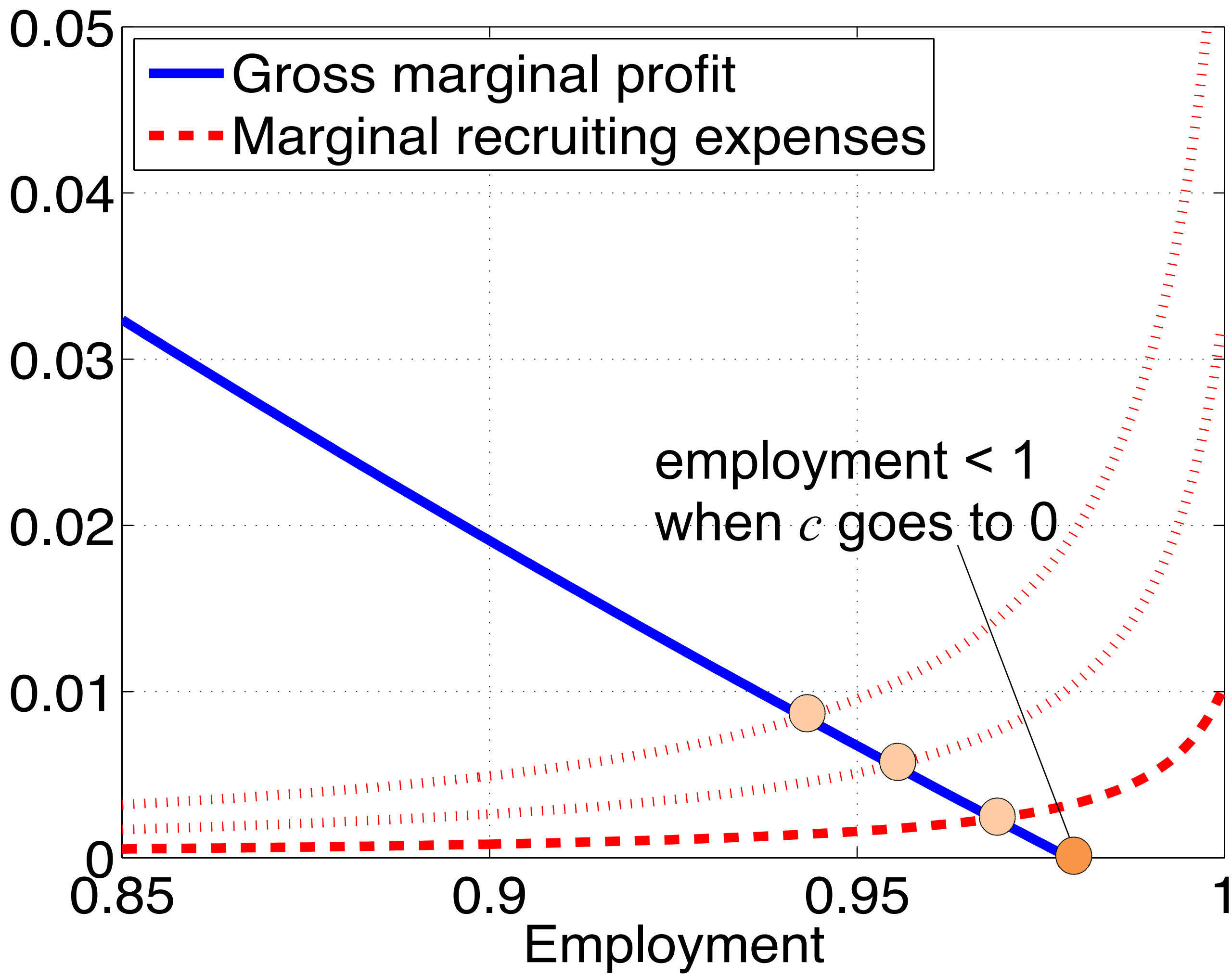




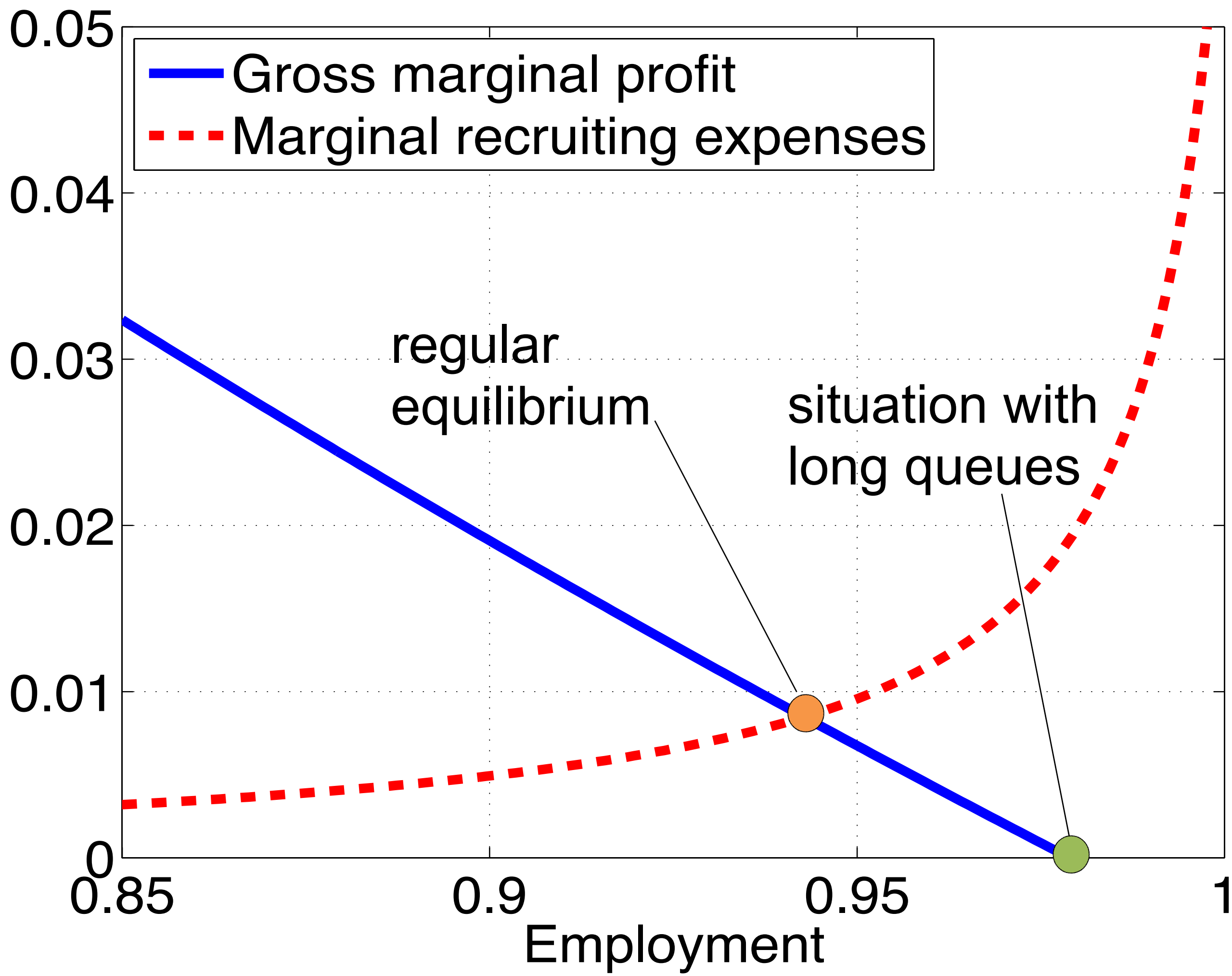


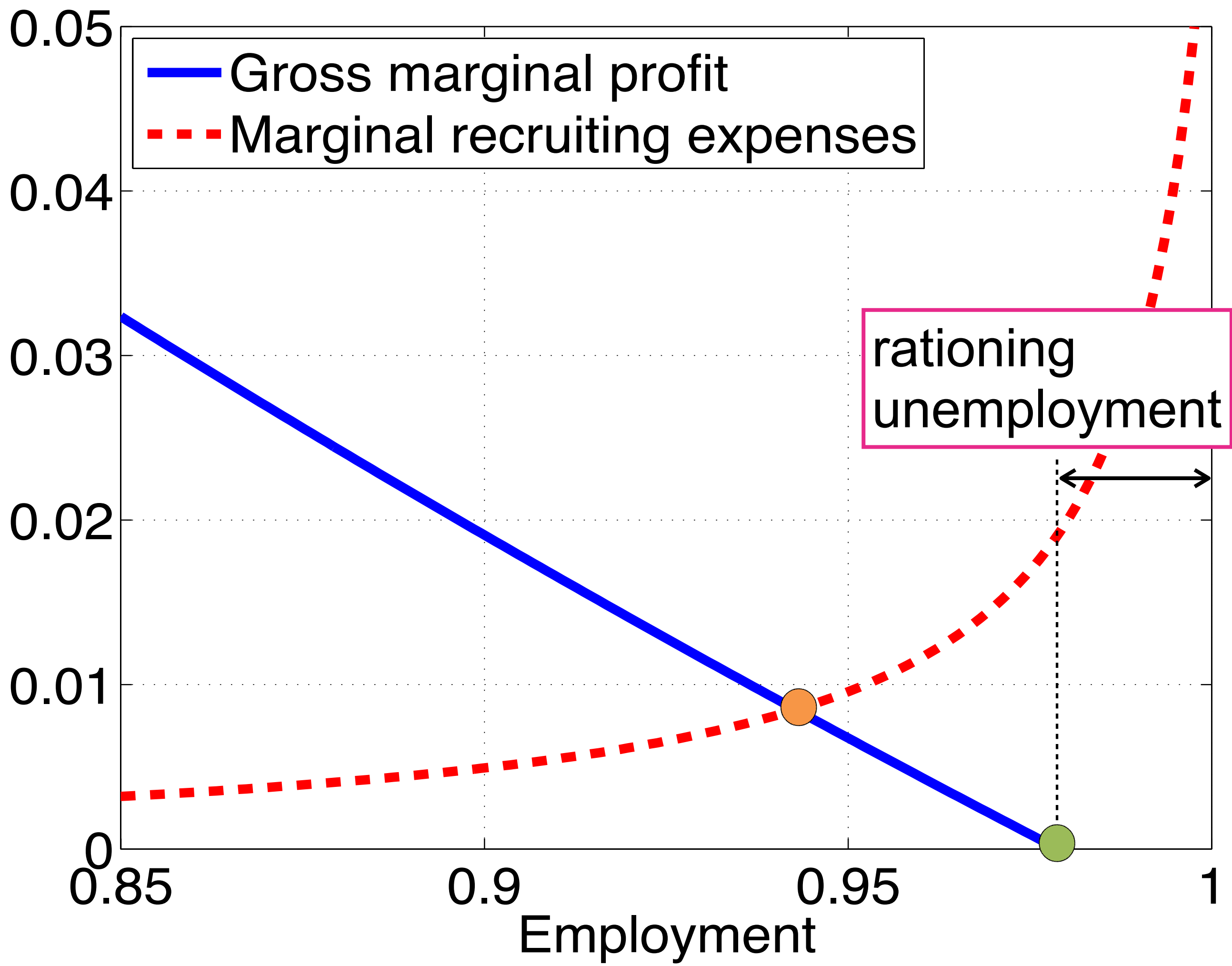


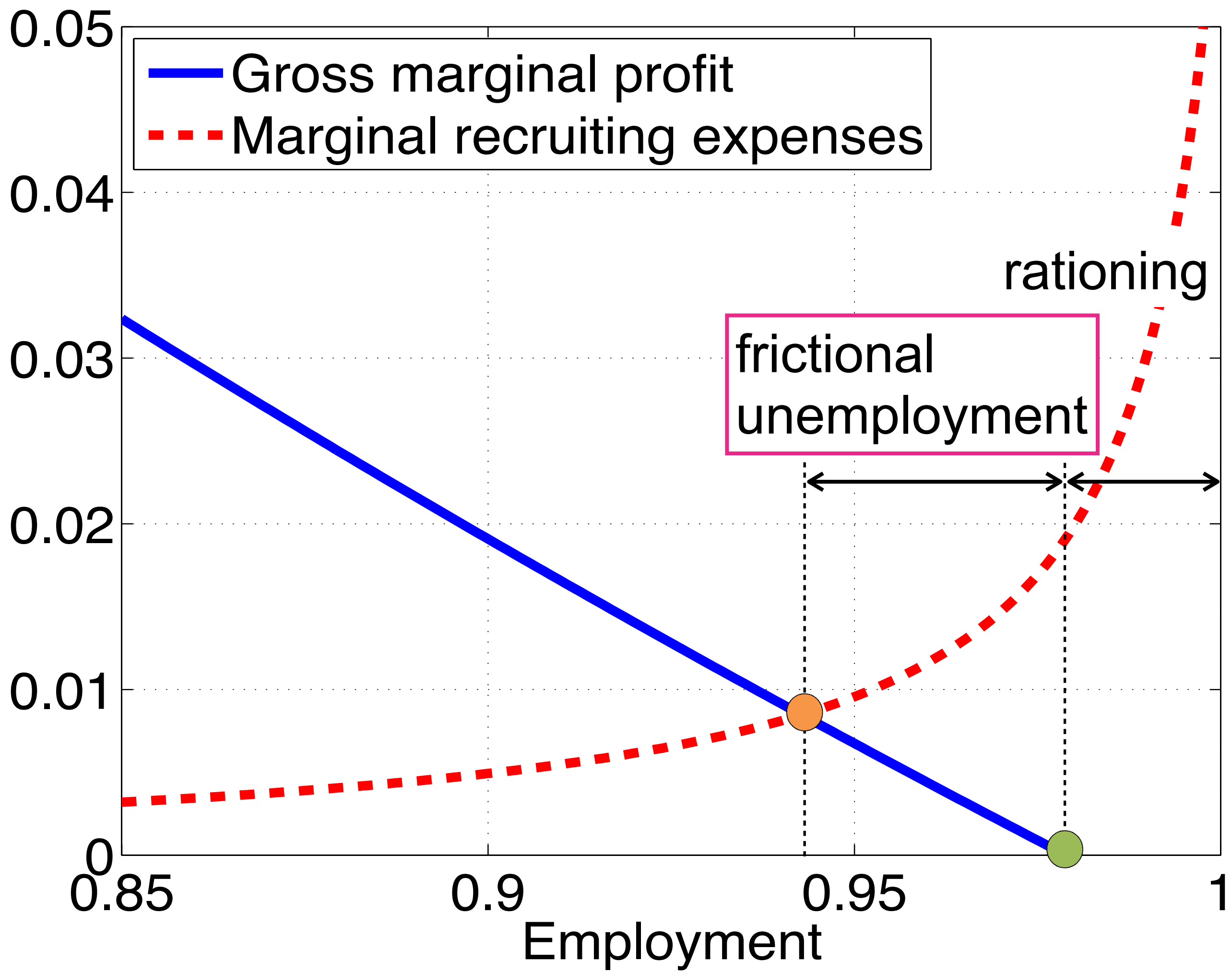


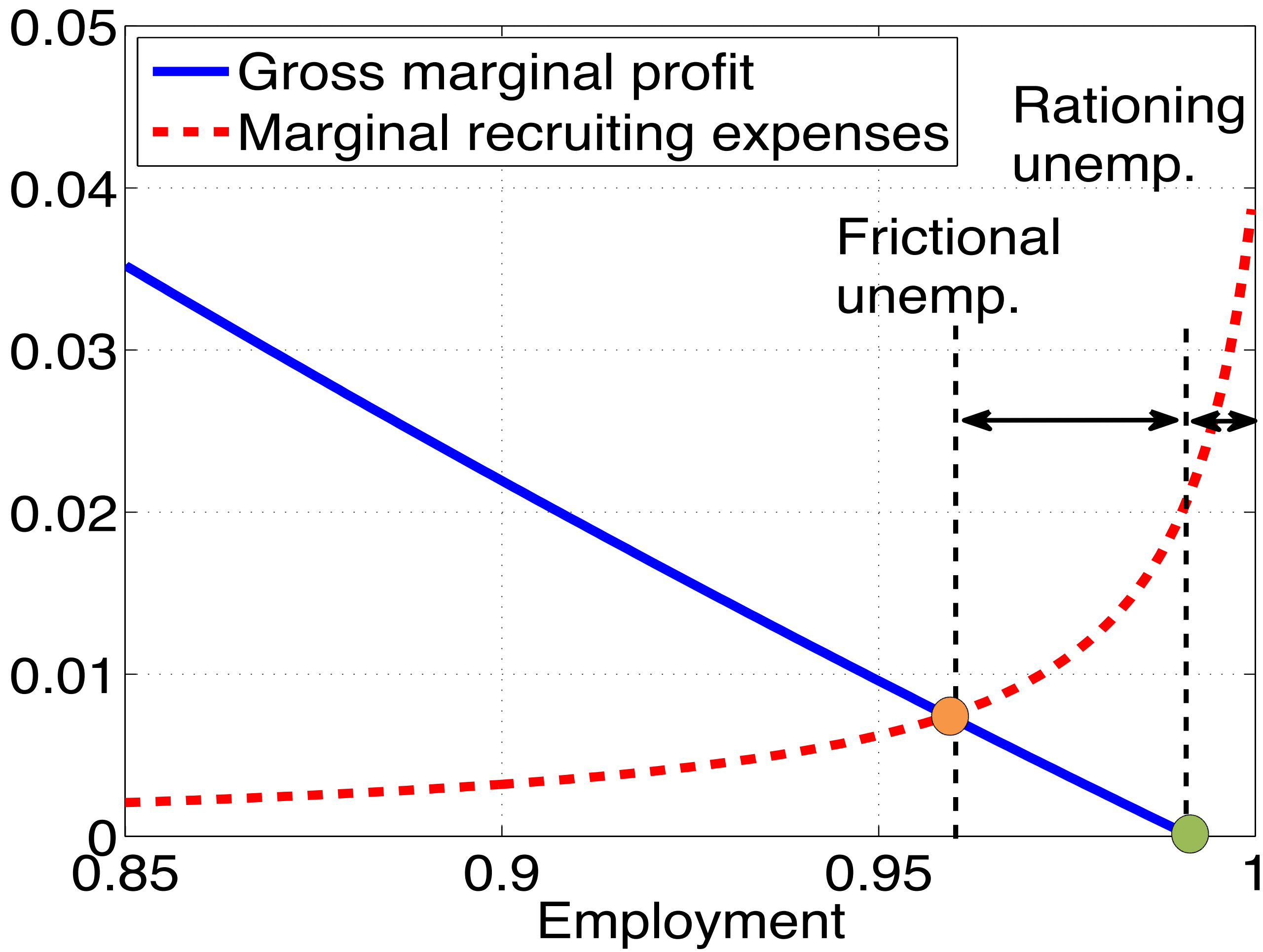


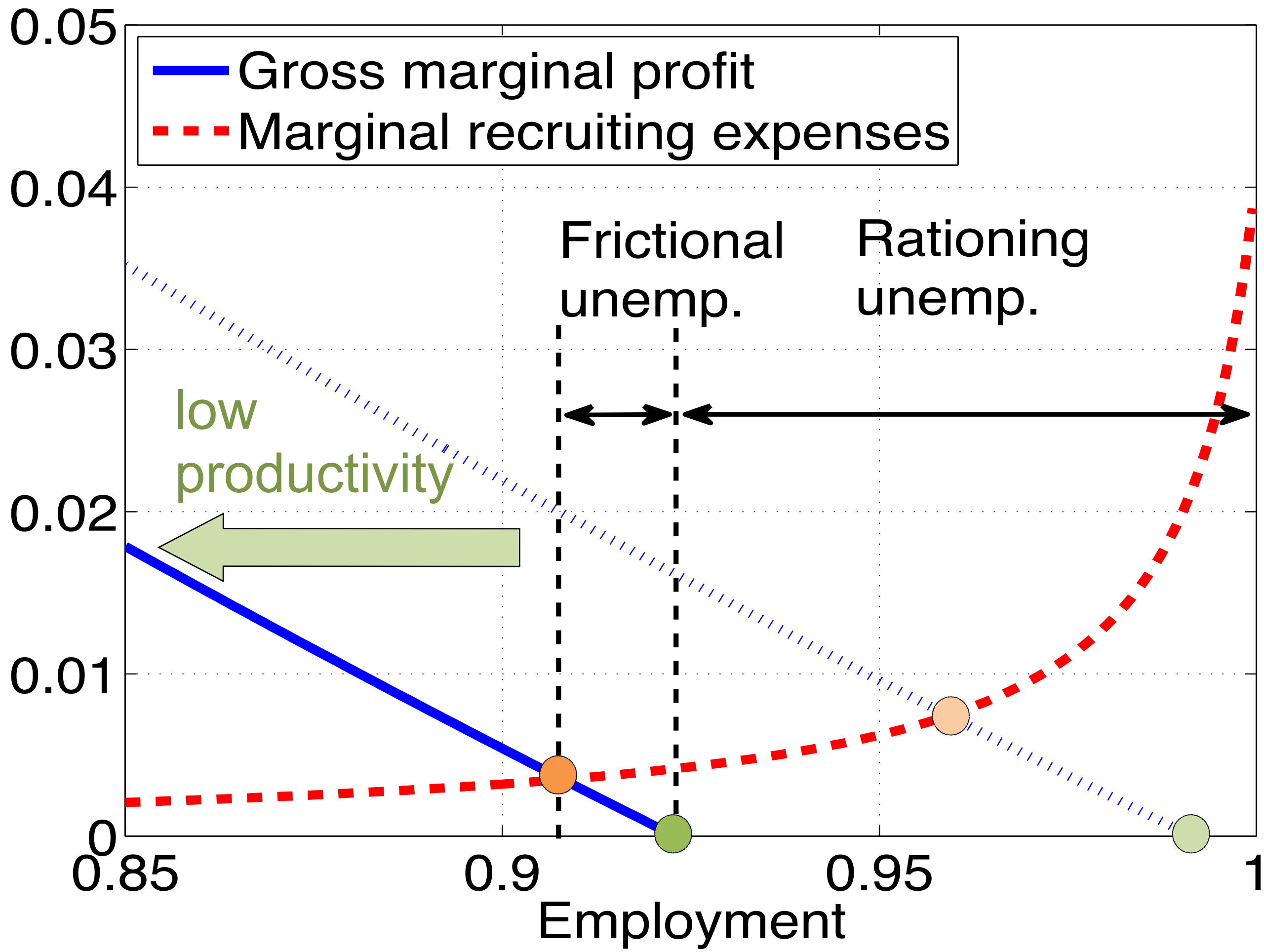




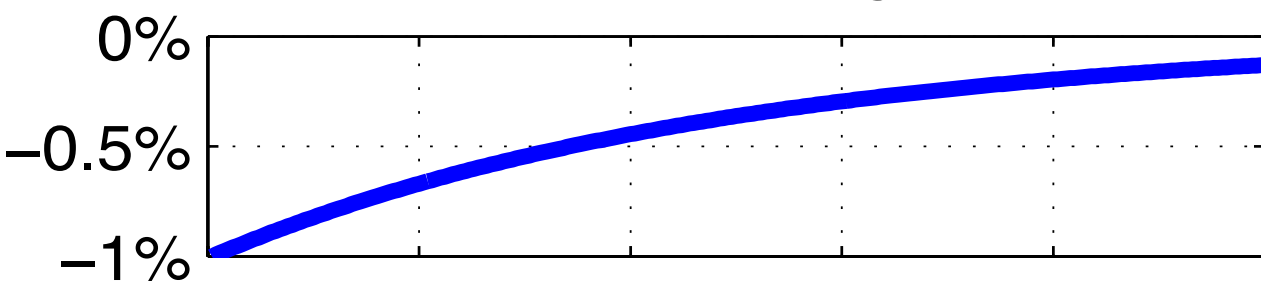




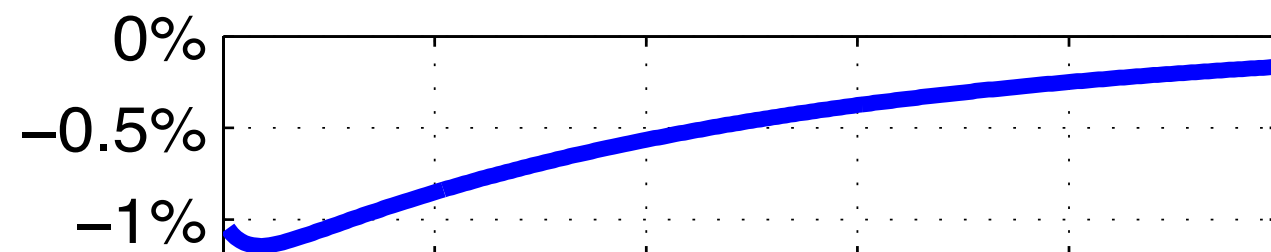




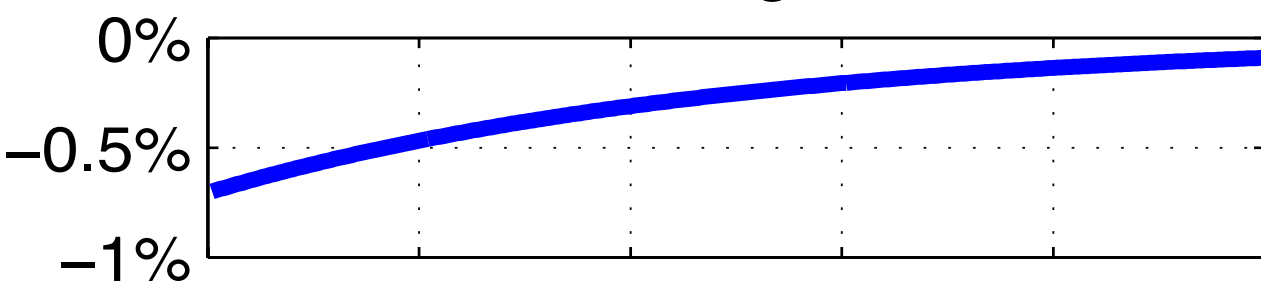
Technology



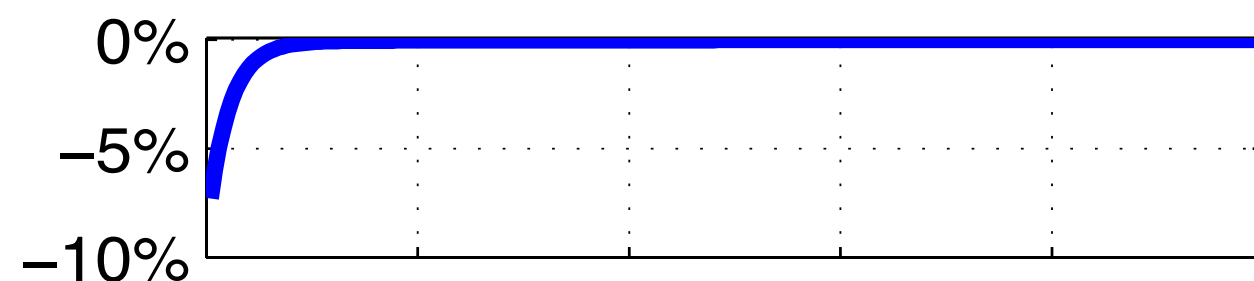
Output



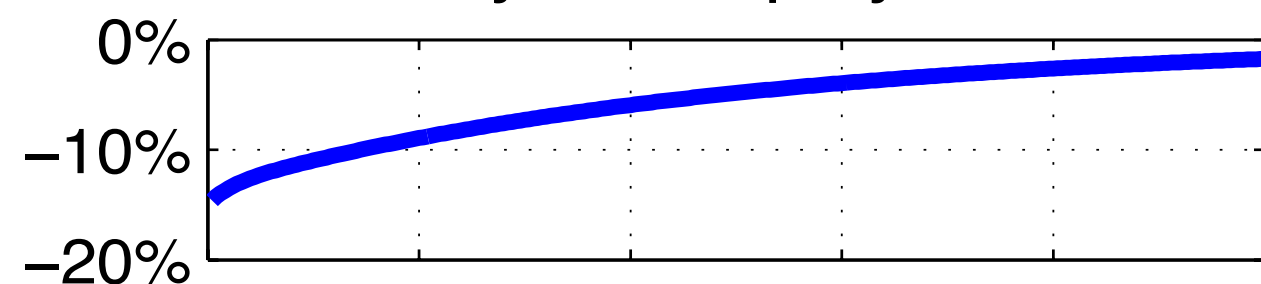
Wage



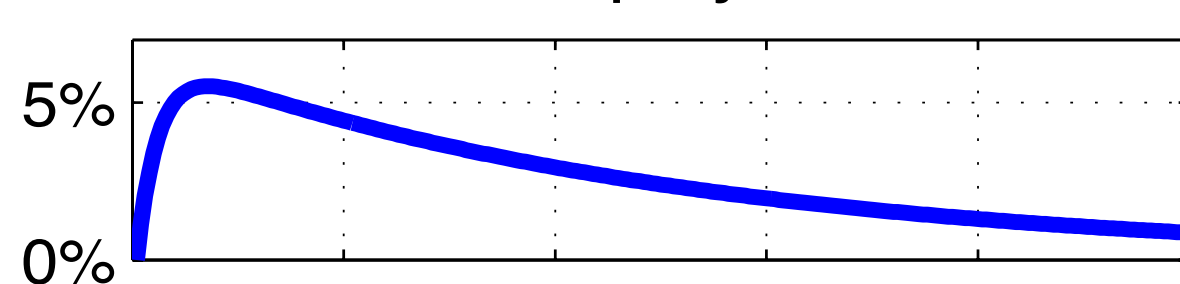
Number of hires



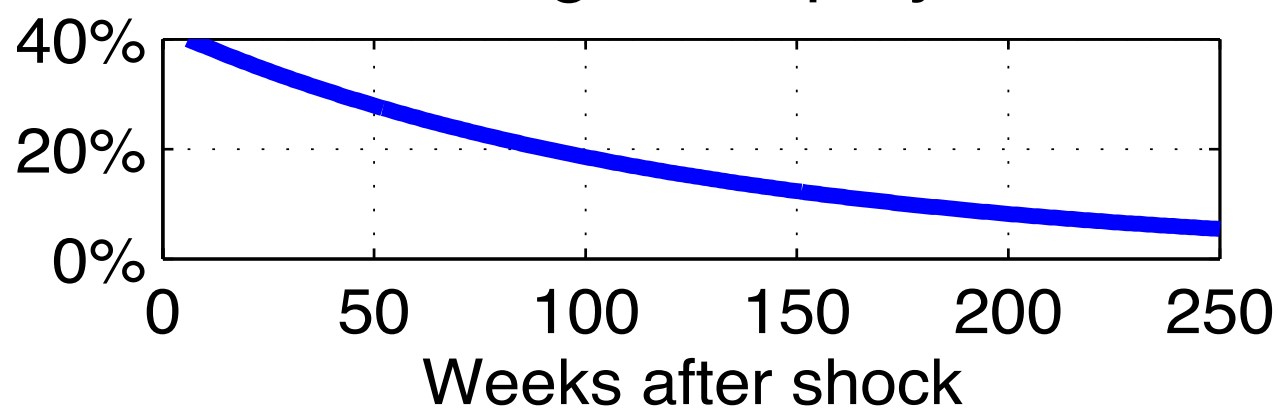
Vacancy-unemployment ratio



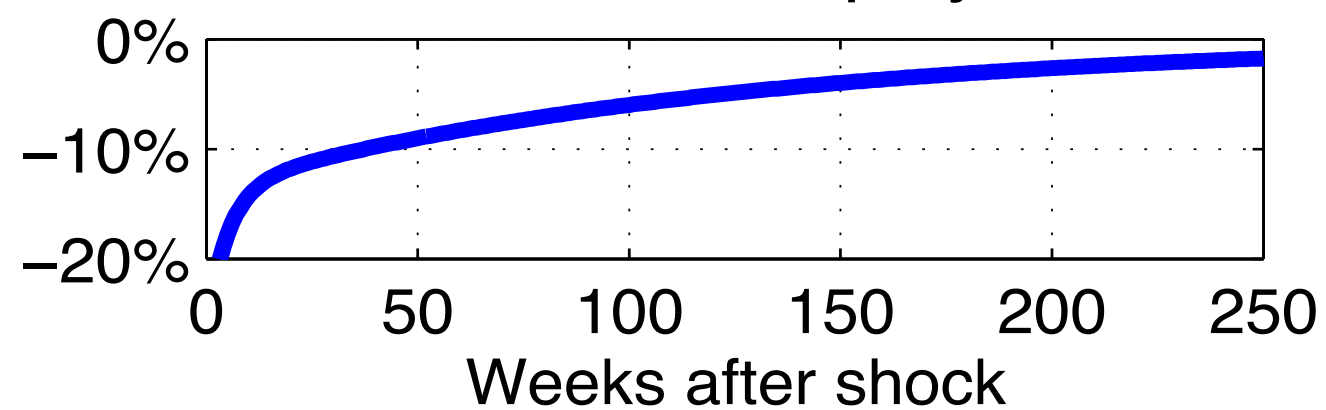
Unemployment

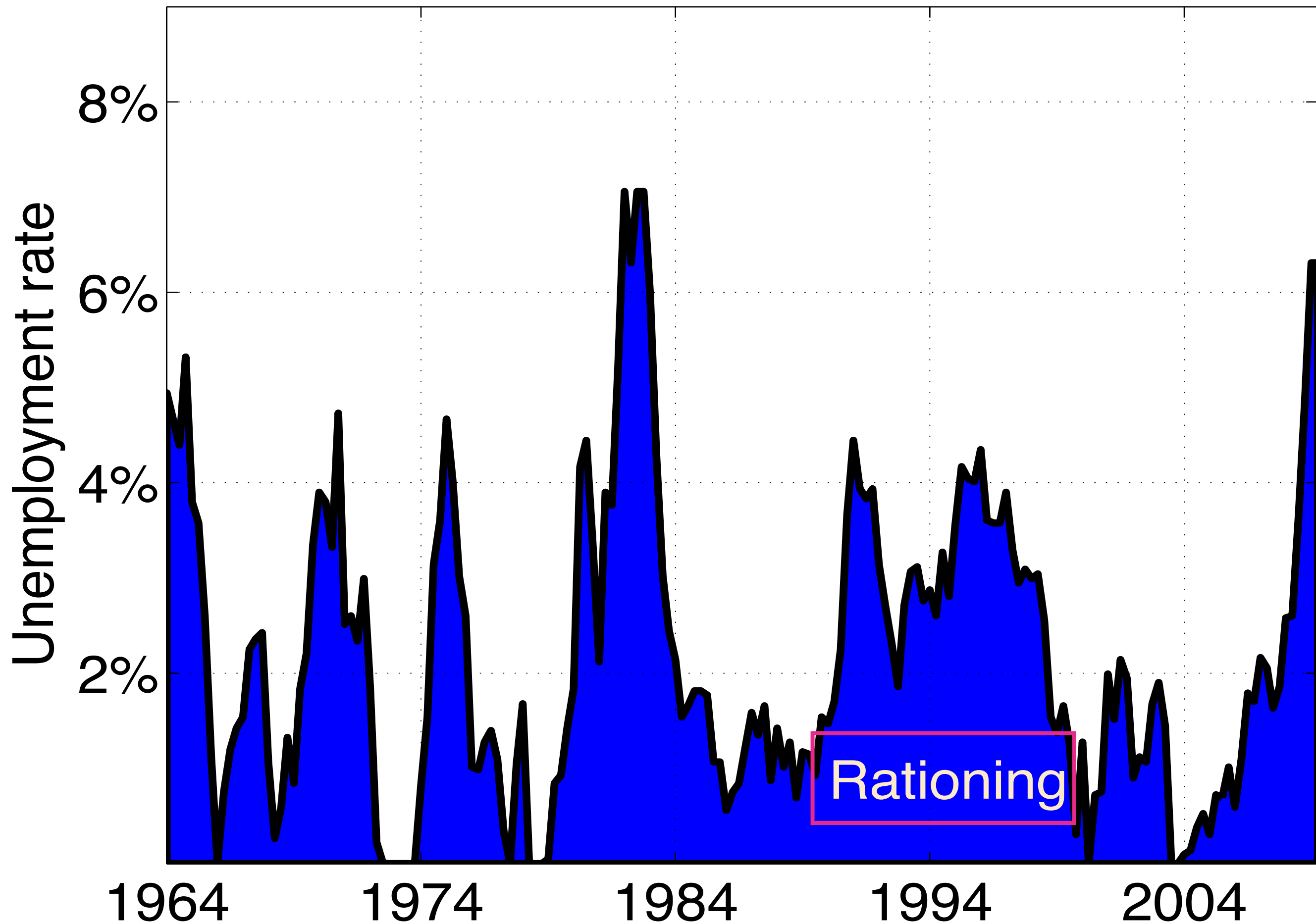


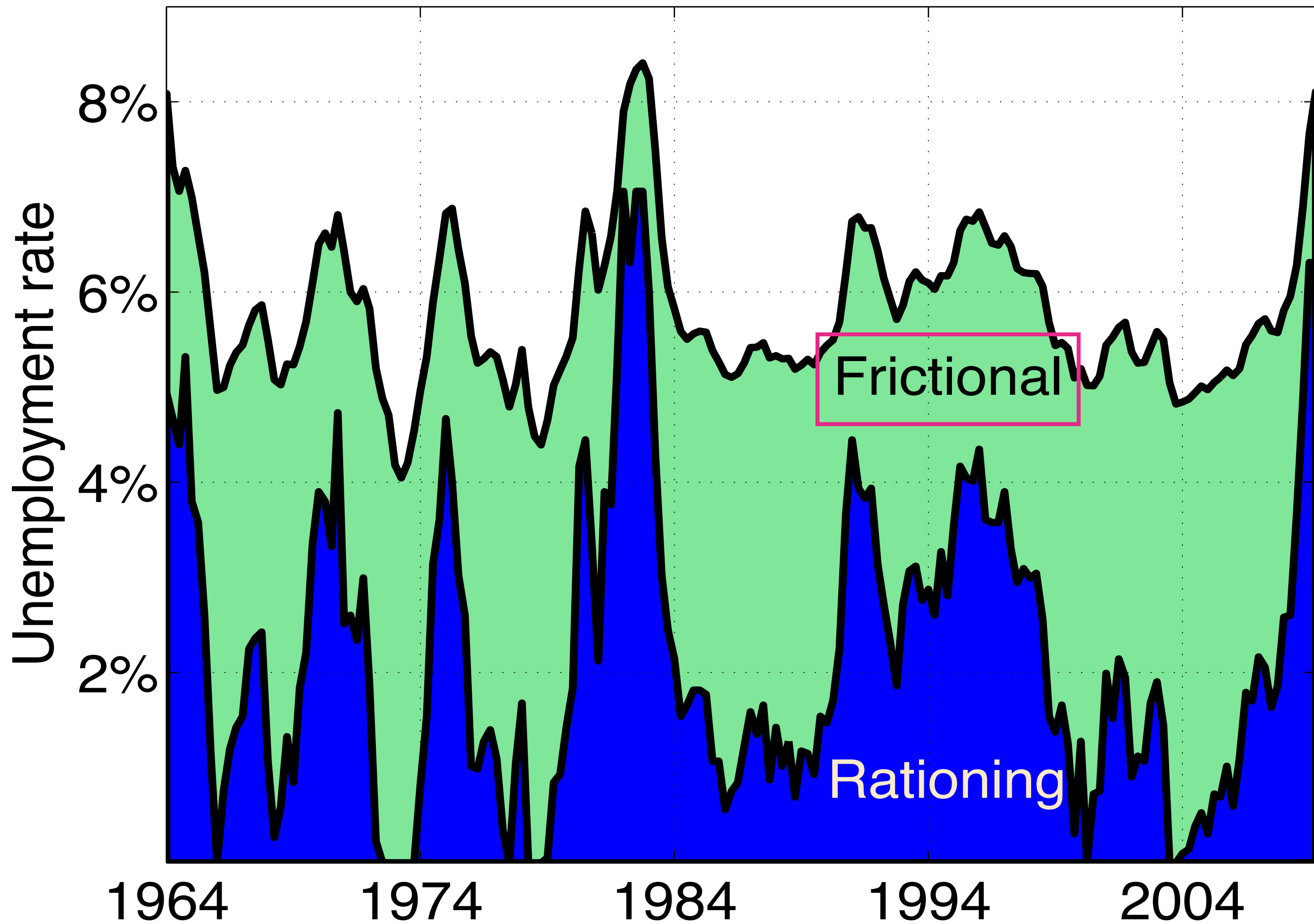
Rationing unemployment



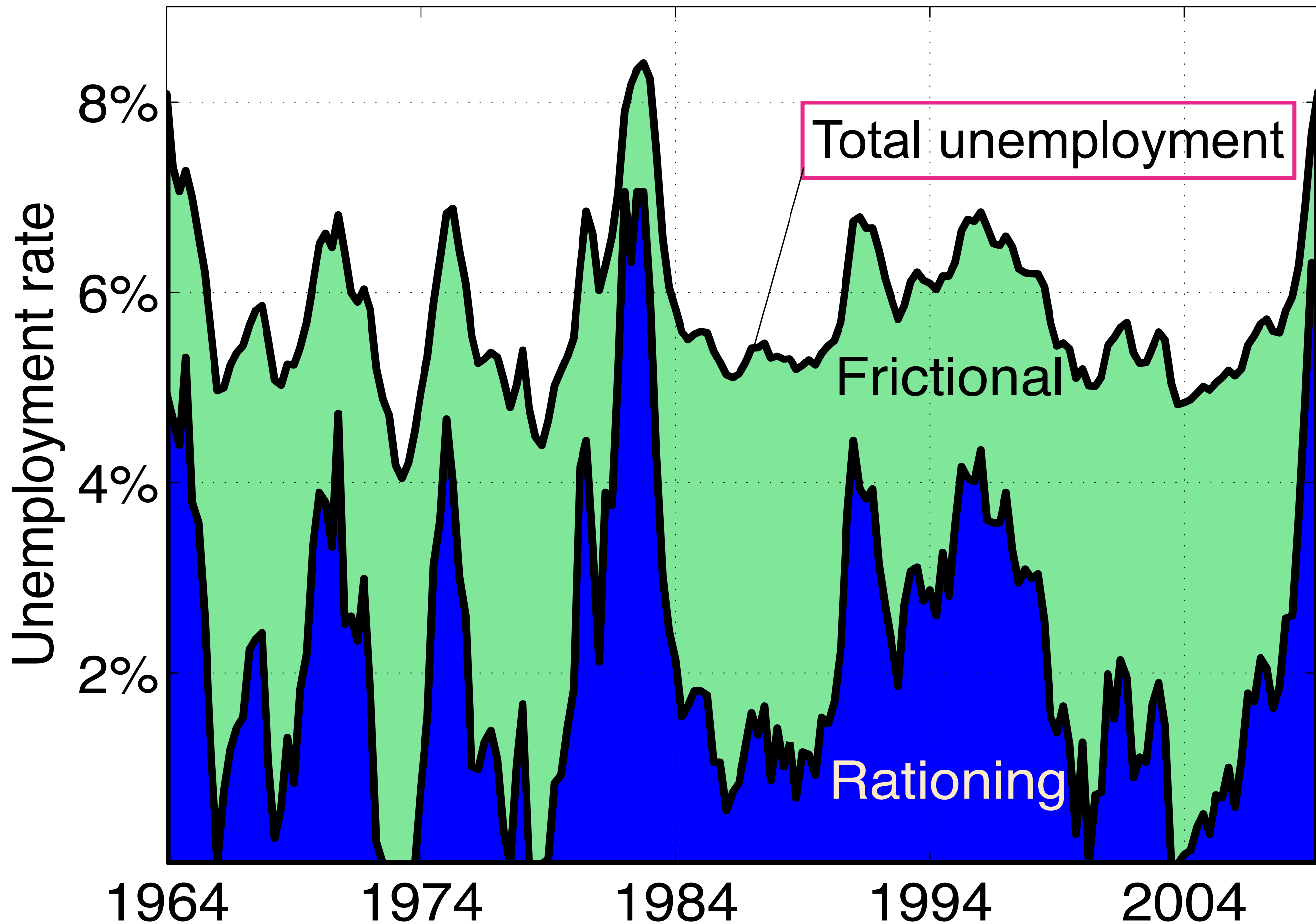
Frictional unemployment



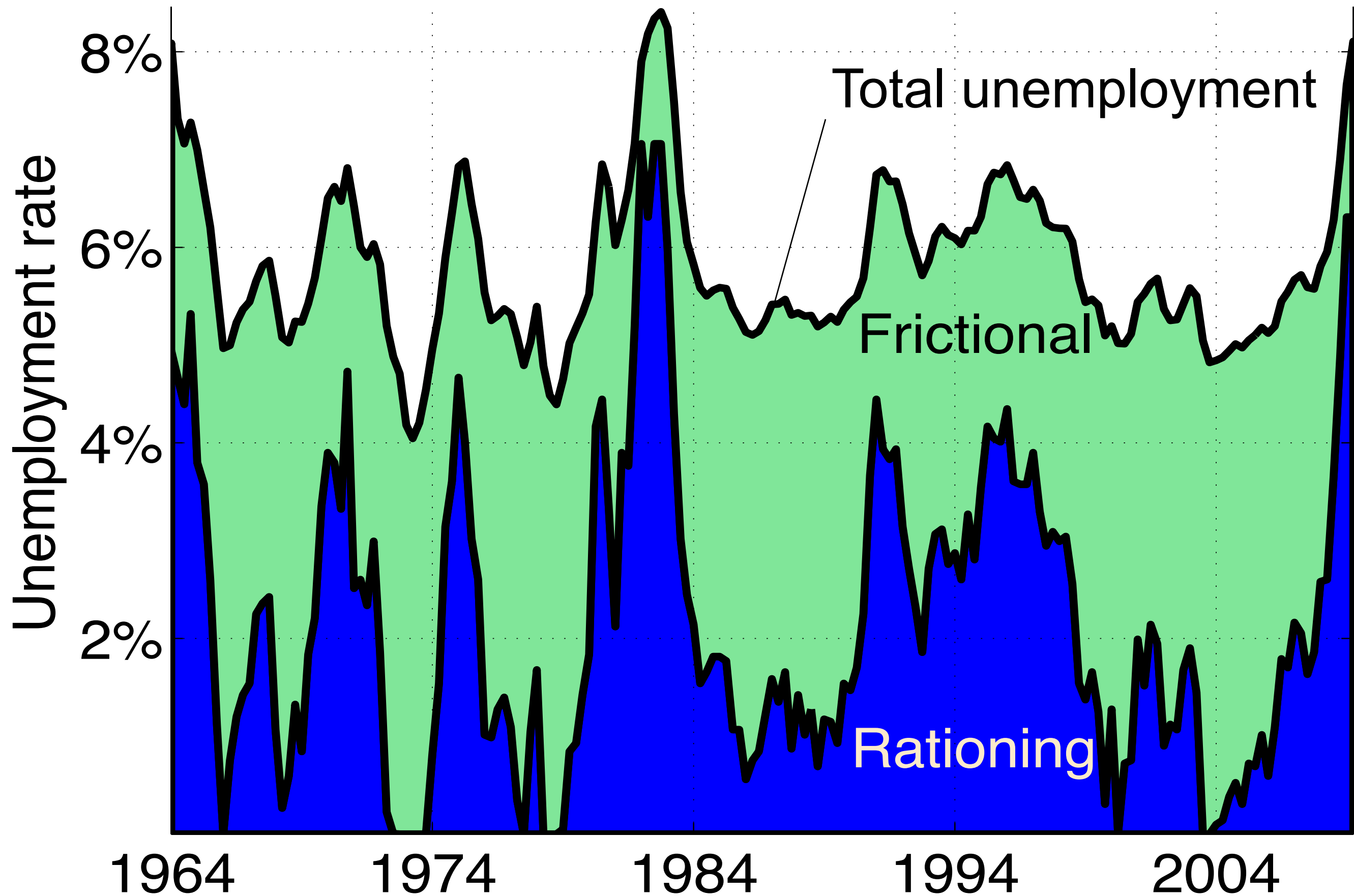


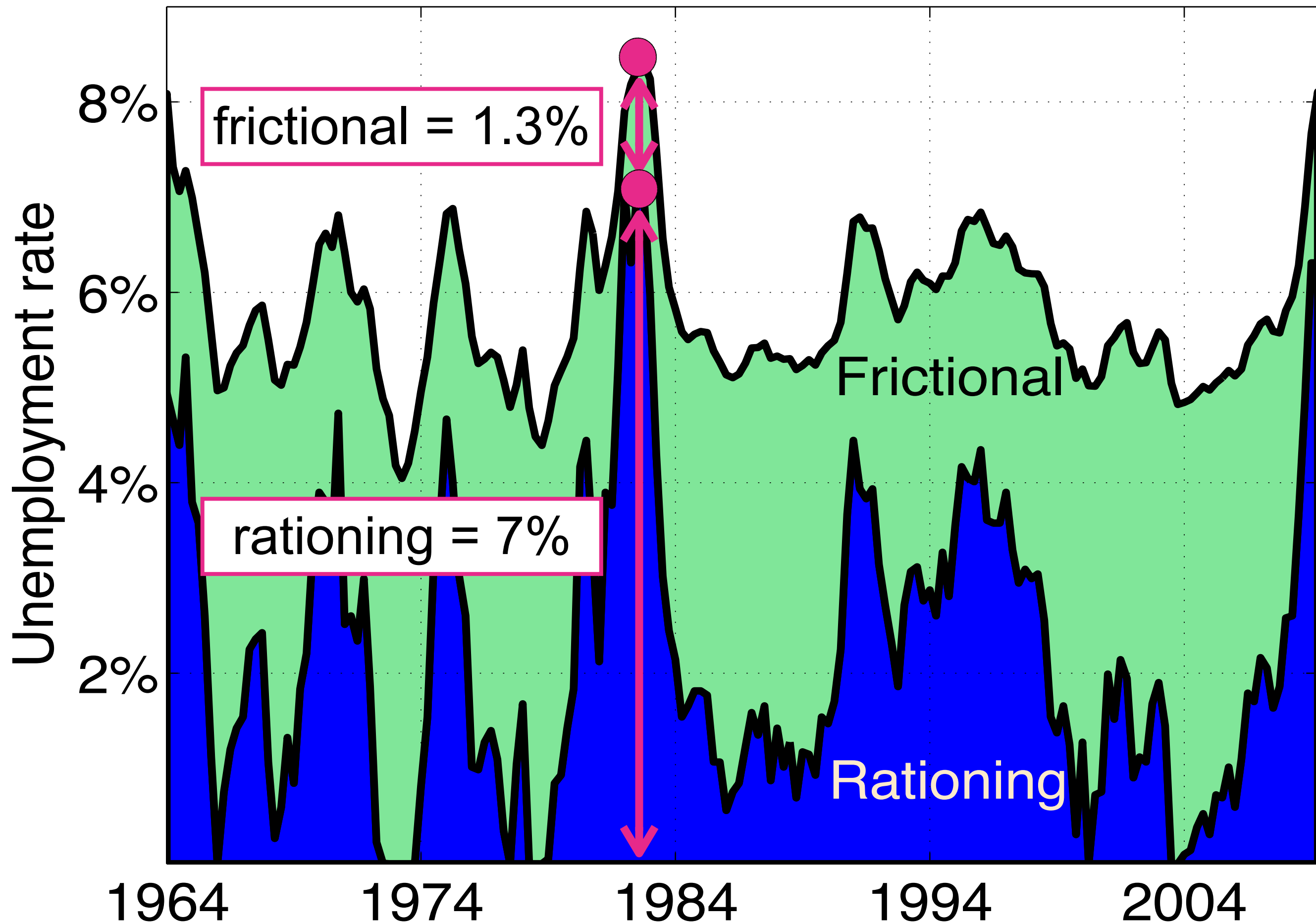


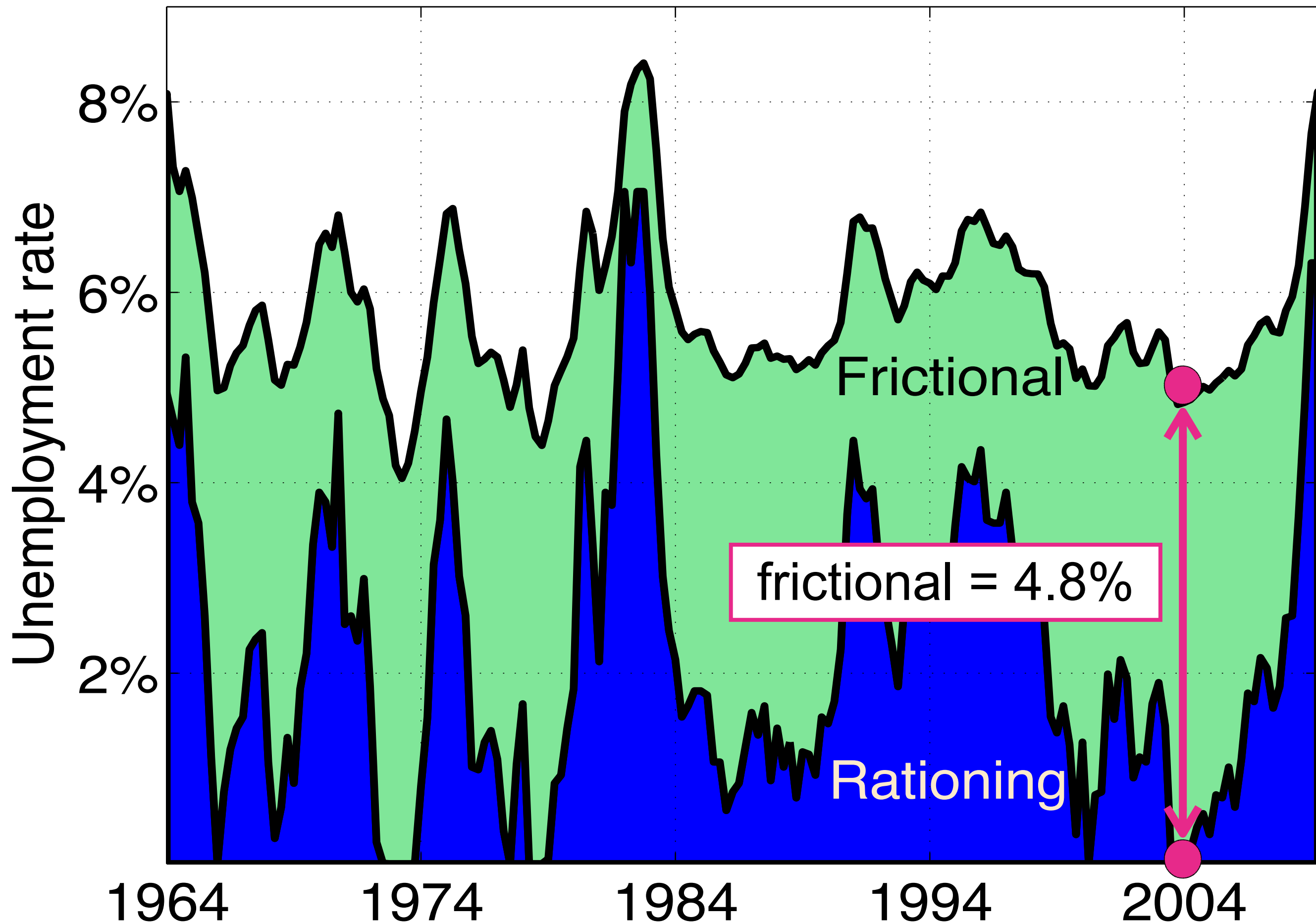


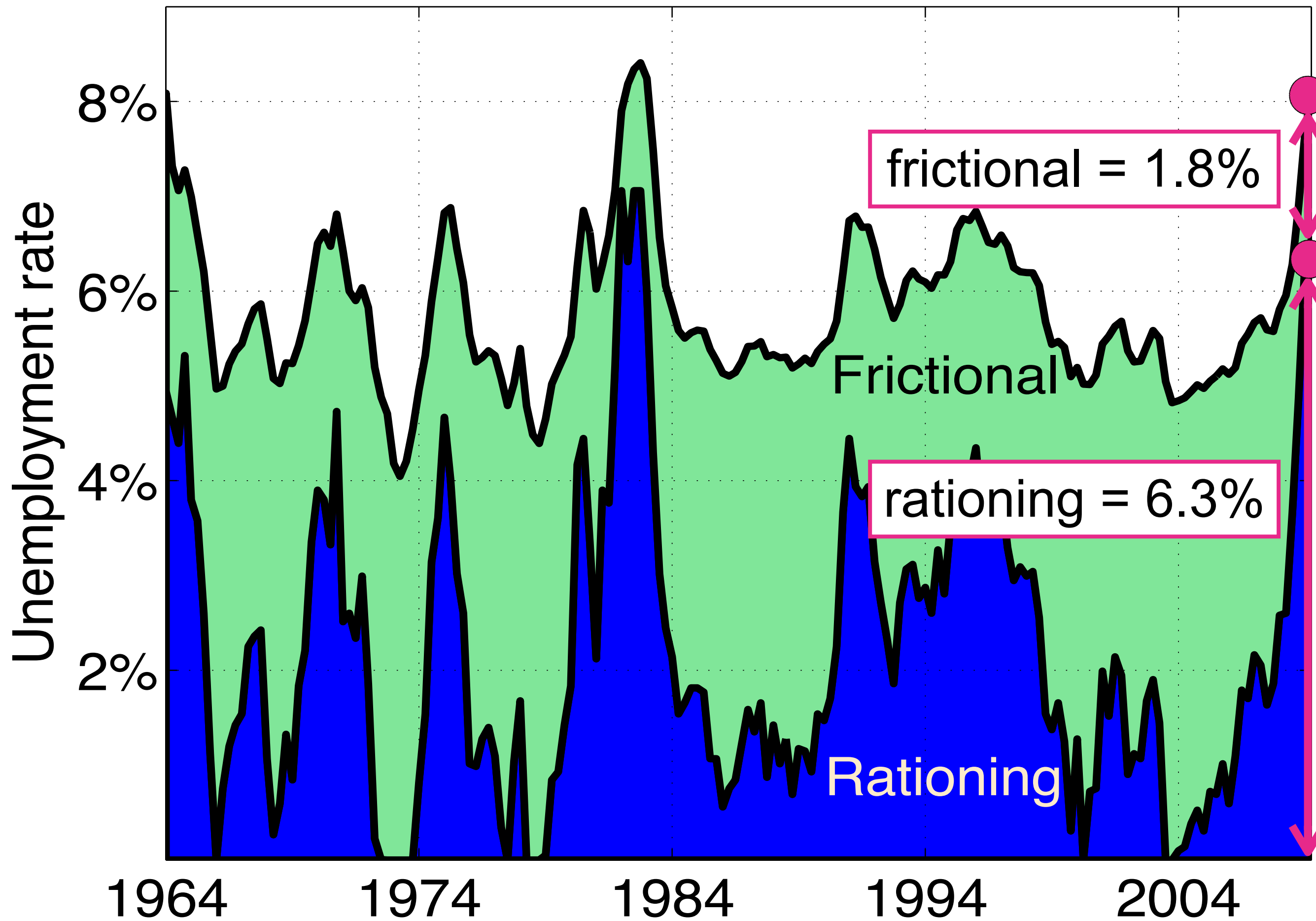


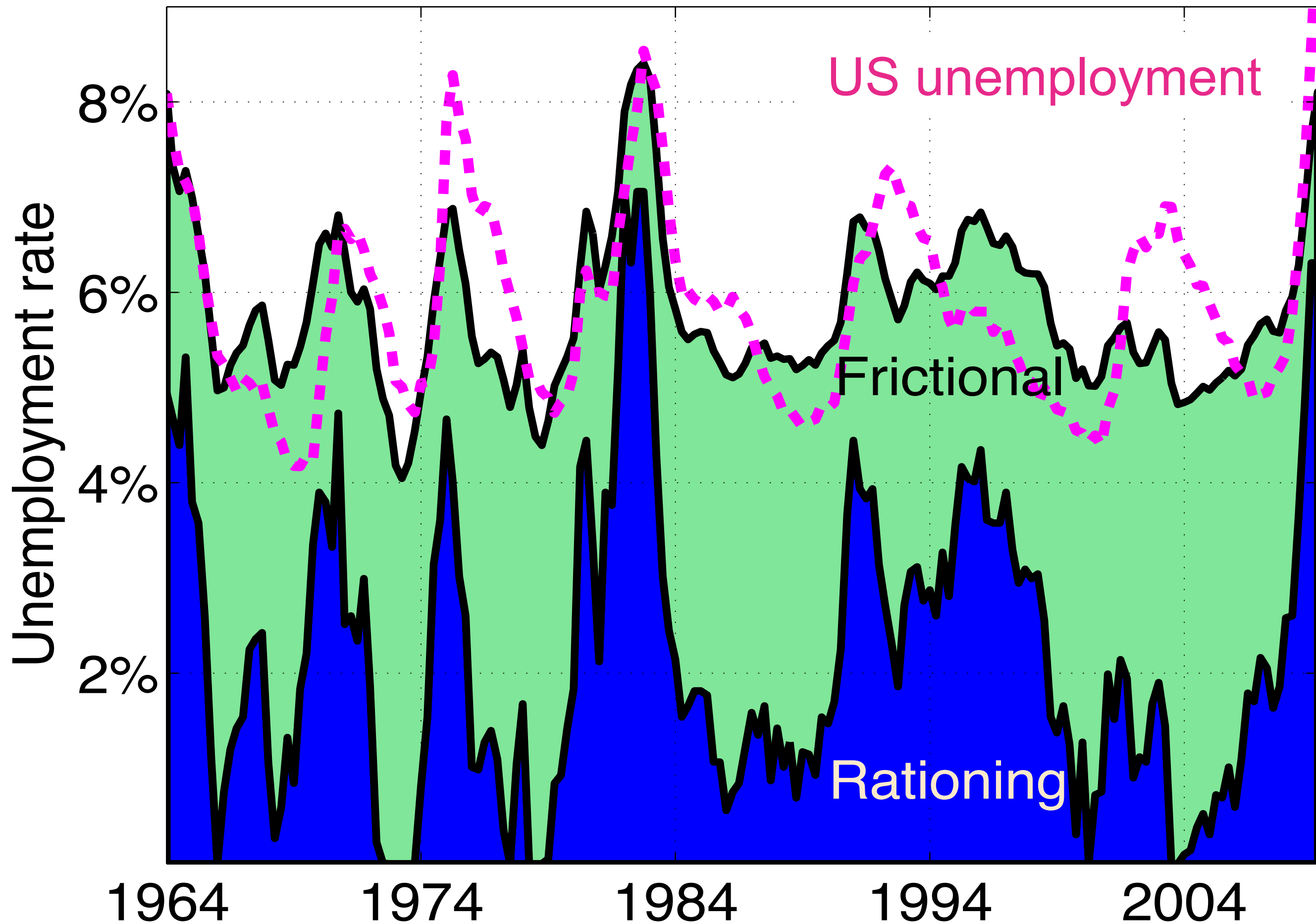
The model is simulated using measured productivity from US data and a shooting algorithm.













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