

Remark 0.0.1.

- (i) For any \mathbb{Q} -integrable r.v. ψ , we have
$$\mathbb{E}^{\mathbb{Q}}(\psi) = \mathbb{E}^{\mathbb{P}}(\eta_T \psi).$$
 ψ is \mathbb{Q} -integrable if and only if $\eta_T \psi$ is \mathbb{P} -integrable.
- (ii) $\mathbb{P}\{\eta_T > 0\} = 1$.
- (iii) $\mathbb{E}^{\mathbb{P}} \eta_T = \mathbb{Q}(\Omega) = 1$.