

$$\begin{array}{ccccc}
 x & I_\omega & \longrightarrow & R & r \\
 \downarrow & \downarrow & & \downarrow \scriptstyle \varphi & \downarrow \\
 (\pi_n(x))_{n \in \omega} & \coprod_{n \in \omega} \frac{I}{I_n} & \longrightarrow & \coprod_{n \in \omega} E\left(\frac{I}{I_n}\right) & \varphi(1_R) \cdot r
 \end{array}$$