

$$\text{INST} \frac{p \Downarrow \{r_v\}}{\text{new } p \Downarrow \langle \text{field}(r_v) @ \text{method}(r_v) \rangle}$$

$$\text{REDUCE} \frac{[\text{this } .z \mapsto r(z)] r \Downarrow r_v}{\{r\} \Downarrow \{r_v\}}$$

$$\text{EXTEND} \frac{p_1 \Downarrow \{r_v\} \quad r \Downarrow r'_v}{\text{extend } p; r \Downarrow r_v @ r'_v}$$

$$\text{PACKAGE} \frac{p \Downarrow p_v \quad r \Downarrow r_v}{\text{package } z = p; r \Downarrow \text{package } z = p_v; r_v}$$

$$\text{FIELD} \frac{e \Downarrow v \quad r \Downarrow r_v}{\text{field } u = e; r \Downarrow \text{field } u = v; r_v}$$

$$\text{METHOD} \frac{r \Downarrow r_v}{\text{method } m = e; r \Downarrow \text{method } m = e; r_v}$$

$$\text{PKGAPP} \frac{e \Downarrow v \quad p \Downarrow \text{fun } (x)p \quad [x \mapsto v]p \Downarrow p_v}{ep \Downarrow p_v}$$