$$E[\hat{\epsilon}_{i}(u)\hat{\epsilon}_{i}(v)] = E[(I-P)\epsilon(v)]$$

$$= E[(I-P)\epsilon(v)] \cdot (I-P)\epsilon(v)]$$

$$= E[(I-P)\epsilon(v)] \cdot (I-P)\epsilon(v)]$$

$$= E[(I-P)\epsilon(v)] \cdot (E[\epsilon_{i}(u)-E[\epsilon_{i}(v)])$$

$$= E[(E(u)-E(u))] \cdot (E[\epsilon_{i}(v)-E[\epsilon_{i}(v)])$$

$$= E[(E(u)-E(u))] = \frac{\partial P}{\partial r} \cdot \text{party approximal}$$

$$= C[(u,v)-E[(P\epsilon_{i}(u))] \cdot (e^{-ir}(v))$$

$$= C[(u,v)-E[(P\epsilon_{i}(u))] \cdot (e^{-ir}(v))$$

$$= E[(P\epsilon_{i}(u))] \cdot (e^{-ir}(v))$$