

which establishes the reciprocity formula. Q.E.D.

$$\Rightarrow \text{By } (*) \text{ on p. 717, } \dim \text{Ext}^i(S; \mathcal{I}_P(L), \Omega^2) = \dim \ker \rho = \dim H^0(\mathcal{I}_P(K+L))$$

$$= h^0(\mathcal{I}_P(K+L)) - \dim \{s'w + s'w'\}.$$

$$0 \rightarrow H^0(\mathcal{O}(K-L)) \rightarrow H^0(\mathcal{O}(K)) \oplus H^0(\mathcal{O}(K)) \rightarrow \{s\omega + s'\omega'\} \rightarrow 0$$

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