$$\|\mathbf{F_r}\| = \gamma_1(X^{(0)}, X^{(1)}) = \sup_{h \in L_0^2(\pi), \|h\| = 1} \left| Corr \left[h(X^{(0)}), h(X^{(1)}) \right] \right|$$

$$= \sup_{h \in L_0^2(\pi), \|h\| = 1} \left| Cov \left[h(X^{(0)}), h(X^{(1)}) \right] \right|.$$
(1)