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Helstrom's Theory on Quantum Binary Decision Revisited

[Gianfranco](#)

[Cariolaro,](#)

[Alberto Vigato](#)

(Submitted on 26
Oct 2010)

For a
binary
system
specified
by the
density
operators
 ρ_0 and
 ρ_1 and
by the
prior
probabilities
 q_0 and
 q_1 ,
Helstrom's