

paper, University of Geneva, 20. Rue de l'École de Médecine, CH-1211 Geneva 4, S
(Received 21 October 2004; published 18 January 2005)

show that (i) all entangled states can be mapped by single-copy measurements into a
state containing secret correlations, and (ii) if a probability distribution obtained from a
state secret correlations, then this state has to be entangled. These results prove the exist-
ence of a connection between secret and quantum correlations in the process of preparation,
as either it is possible to map any bound entangled state into a distillable probability of
the bound information state.

DOI:10.1103/PhysRevLett.94.050401

PACS numbers: 03.67.Dd, 03.67.Hk

Secret correlations are fundamental
in information theory and cryptogra-
phy both share the property of being
the sense that the more two parties
secret correlations, the less they are
outside world. This fact suggests that

correlations are not sufficient for
similar way, for a given probability
wonder what the cost of its distribu-
tion, when only classical resources
[1], we say that a probability distri-
bution is secret correlations if and only if it cannot

Catalunya invertira 2.000 milions d'euros en recerca en quatre anys

January 26, 2005

El conseller d'Universitats i Recerca, Carles Sola, ha anunciat que el govern català invertirà 2.000 milions d'euros en recerca en els propers 4 anys. Sola ha assenyalat que la fònica serà una de les línies de recerca estratègiques.

