Subject: Re: Covariance Matrices in RhoCandidates Posted by SHenssler on Wed, 16 Apr 2014 17:37:27 GMT View Forum Message <> Reply to Message

Hello Stefano,

positive semi definite does not mean that there cannot be negative values. The Definition says, that any vector y multiplied in the way: $y^t * C * y$, where C is the Covariance Matrix, must result in a value greater or equal to zero. In a way that is the proof, that the Chi-Square value ($y^t * C^{-1} * y$) is always positive. Or rather, if C is not positive semi definite, then it cannot ne guaranteed that the Chi Square value is positive. It is a mathematical property that every Covarince Matrix Must have.

Cheers Simon

Page 1 of 1 ---- Generated from GSI Forum