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Random Matrix--

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Theoretic Approach to Handling Singular Covariance **Estimates**

```
Marzetta,
Gabriel H. Tucci,
Steven H. Simon
(Submitted on 4
Oct 2010)
   In many
   practical
   situations
   we would
   like to
   estimate
   the
   covariance
   matrix of
   a set of
   variables
   from an
   insufficient
   amount
   of data.
   More
   specifically,
   if we
   have a
   set of
   $N$
   independent,
   identically
   distributed
   measurements
   of an
   $M$
   dimensional
```

Thomas L.

random vector the maximum likelihood

estimate

is the