$$E[s(\theta)s(\theta)^T] = -\sum \frac{\partial^2 \log f(\mathbf{x}\,|\,\theta)}{\partial\theta\partial\theta^T} f(\mathbf{x}\,|\,\theta) = -E[\frac{\partial^2 \log f(\mathbf{x}\,|\,\theta)}{\partial\theta\partial\theta^T}]$$