Corrigendum

Spin models on random graphs with controlled topologies beyond degree constraints
C J Pérez-Vicente and A C C Coolen 2008 *J. Phys. A: Math. Theor.* **41** 255003

We regret that appendix A.1 contains an error in the last line of (A.5). This impacts only the interpretation of the kernel $Q(k, k')$ and hence does not affect the remainder of the paper. The last eight lines of A.1 are to be replaced by the following correction:

$$\mathcal{P}[\text{conn}|k, k'] = \frac{\sum_{\mathbf{c}} \text{Prob}(\mathbf{c}) \sum_{i < j} c_{ij} \delta_{k,k_i(\mathbf{c})} \delta_{k',k_j(\mathbf{c})}}{\sum_{\mathbf{c}} \text{Prob}(\mathbf{c}) \sum_{i < j} \delta_{k,k_i(\mathbf{c})} \delta_{k',k_j(\mathbf{c})}}$$
$$= \frac{kk'}{NcF(k)F(k')} Q(k, k') \qquad (A.5)$$

(full details of the derivation of (A.5) will be published elsewhere). Hence,

$$Q(k, k') = \frac{\mathcal{P}[\text{conn}|k, k']}{\mathcal{P}[\text{conn}]} \frac{c^2 F(k)F(k')}{kk'}, \qquad (A.6)$$

i.e. $Q(k, k')$ controls the probability for two randomly drawn vertices with degrees k and k' to be connected, divided by the overall probability of two randomly drawn vertices to be connected (irrespective of their degrees).