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ERRATUM

Erratum to: Hyperfine spin qubits in irradiated malonic acid: heat-bath algorithmic cooling

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In subsection **3.2**, "Continuous-wave ESR results", the Gaussian computer program should be cited as:
M.J. Frisch, G.W. Trucks, H.B. Schlegel, G.E. Scuseria, M.A. Robb, J.R. Cheeseman, G. Scalmani, V. Barone, B. Mennucci, G.A. Petersson, H. Nakatsuji, M. Caricato, X. Li, H.P. Hratchian, A.F. Izmaylov, J. Bloino, G. Zheng, J.L. Sonnenberg, M. Hada, M. Ehara, K. Toyota, R. Fukuda, J. Hasegawa, M. Ishida, T. Nakajima, Y. Honda, O. Kitao, H. Nakai, T. Vreven, J. A. Montgomery, Jr., J.E. Peralta, F. Ogliaro, M. Bearpark, J.J. Heyd, E. Brothers, K.N. Kudin, V.N. Staroverov, R. Kobayashi, J. Normand, K. Raghavachari, A. Rendell, J.C. Burant, S.S. Iyengar, J. Tomasi, M. Cossi, N. Rega, J.M. Millam, M. Klene, J.E. Knox, J.B. Cross, V. Bakken, C. Adamo, J. Jaramillo, R. Gomperts, R.E. Stratmann, O. Yazyev, A.J. Austin, R. Cammi, C. Pomelli, J.W. Ochterski, R.L. Martin, K. Morokuma, V.G. Zakrzewski, G.A. Voth, P. Salvador,

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J.J. Dannenberg, S. Dapprich, A.D. Daniels, Ö. Farkas, J.B. Foresman, J.V. Ortiz, J. Cioslowski, and D.J. Fox, *Gaussian 09, Revision A.02* (Guassian, Inc., Wallingford CT, 2009)

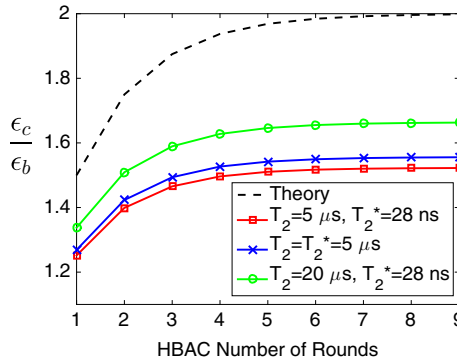Figure 7 and its caption should be replaced by the following:

Fig. 7 Simulation results for 3-qubit HBAC using AHC. The *plot* shows the ratio of the C_m polarization (ϵ_c) and the electron bath polarization (ϵ_b) at the end of each HBAC round, up to 9 rounds. The *dashed curve* is the theoretical (ideal) value. The *red (open squares) curve* is obtained by incorporating all experimentally determined (room temperature) relaxation parameters. The *blue (crosses) curve* is obtained by allowing the T_2^* of the electron to equal T_2^e. The *green (open circles) curve* is obtained by allowing T_2^e to be $20\,\mu s$, 4 times longer than the measured value, in order to test the consequence of a longer electronic T_2