Angewandte Addendum

It was called to the attention of the correspondence authors of this communication that the statement "Adducts of an electronegative central anion, such as Cl^-, with halogen molecules, such as I_2, attached, are not known." should not be maintained. Indeed, $[Cl(I_2)_4]^-$ contains the linear anion $[Cl(I_2)]^-$ which has been observed apparently for the first time in the crystal structure of $(Phen)_2[[Cl_2I][ClI_2]$.[1] The isolated anion $[Cl(I_2)_4]^-$ may also be cut out of the anionic network in the crystal structure of $[(Ph)_3PCl]_2[Cl_2I_{14}]$.[2] However, the "anion" $[Cl_2I_{14}]^{2-} \rightarrow [ClI_7]^-$, better written as $[\{Cl(I_2)_{4/2}(I_2)\}(I_2)_{1/2}]^-$, contains the tetragonal pyramid $\{Cl(I_2)_{4/2}(I_2)\}$, whose not exactly planar base $Cl(I_2)_4$ is connected with further $[Cl(I_2)_4]$ units. Synthesis and crystal structure of $[(H_5O_2)I2b15c5)_2][Cl(I_2)_4]$ are, by the way, taken from Ref. [3].

[1] Y.-Q. Wang, Z.-M. Wang, C.-S. Liao, C.-H. Yan, *Acta Cryst.* **1999**, *C55*, 1503 – 1506.
[2] M. Wolff, A. Okrut, C. Feldmann, *Inorg. Chem.* **2011**, *50*, 11683 – 11694.
[3] C. Walbaum, *Neue Poly(inter)halogenide mit Kronenether-stabilisierten Kationen*, Dissertation, Universität zu Köln, **2009**; publicly available from http://kups.ub.uni-koeln.de/id/eprint/2952.

Iodine–Iodine Bonding makes Tetra(diiodine)chloride, $[Cl(I_2)_4]^-$, Planar

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Angew. Chem. Int. Ed. **2013**, *52*

DOI: 10.1002/anie.201305412

