



Fig. 4. Five "magic" fullerenes. C_{28} is a very interesting tetrahedral molecule with a striking family resemblance to Gomberg's stable free radical triphenylmethyl, $\cdot C(C_6H_5)_3$, the first organic free radical and the forerunner of free radical chemistry. C_{32} , here viewed more or less along its threefold axis, is handed. One of two feasible C_{50} semistable isomers is shown and the one and only C_{60} buckminsterfullerene. C_{70} is formed by separating two halves of C_{60} by a ring of ten extra atoms to form a U.S. football.