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# Crystals that Nature might miss creating

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## Abstract

No one should have any objections against the claim that the diamond crystal, the most precious gem polished with the brilliant cut, casts a spell on us by its stunning beauty. The beauty would be more enhanced and its emotional appeal would be raised to rational one if we would explore the microscopic structure, say the periodic arrangement of carbon atoms, which is actually responsible for the dazzling glaze caused by the effective refraction and reflection of light. Figure 1, found in many text books of solid state physics, illustrates the arrangement of atoms together with their bonding (depicted by virtual lines) of atoms probed by atomic force. A close look at this figure (or its ready-made model preferably) reveals that, as a 1-dimensional diagram in space, the diamond crystal is formed by a wedge of the same hexagonal rings and has a “very big” symmetry, thereby being conspicuously distinguished from other crystals by its “microscopic beauty”. Figure 1. Carbon atoms in the diamond crystal The purpose of this article is to propose a new crystal structure<sup>2</sup> having similar mathematical properties as the diamond crystal. This “crystal”, which we describe prosaically

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Crystals that nature might miss creating, apollonovicha started.

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