

On the Study of SL Blocks

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SL block is an octocube consisting of an S -shaped tetracube and an L -shaped tetracube attaching to each other along sides. An SL block may interlock with other SL blocks to form variations of stable structures. The property of self-interlocking makes SL block expressive to explore the beauty of symmetry. Various shapes of octocubes have been examined based on the feasibility and flexibility of creating interlocking configurations. SL block is so far the one most interesting and promising.

In this talk, we will have a brief introduction about SL blocks first. Then we analyse the connecting and combining ways between multiple SL blocks systematically in order to uncover all compositions of extensible and interlocking structures. Finally, we propose some results related to the configurations of SL blocks. This talk is based on a joint work with Long-Wei Chou (National Chiayi University).