

## **The hows and whys of Home-Built Software: Using the COSET program as a case study**

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COSET is a program which derives and tests twin laws for twinning by merohedry and pseudo-merohedry. This talk will use COSET as a case study to examine the objectives, issues, and decisions which arise when writing a piece of home built software. Topics covered will include choice of computer language(s), choice of data structures and algorithms, modularity and code organization, abstraction layers and portability, as well as decisions regarding input and output. In addition, the newest developments and future directions for the program will be briefly discussed.