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On the origin of internal layers in comet nuclei.

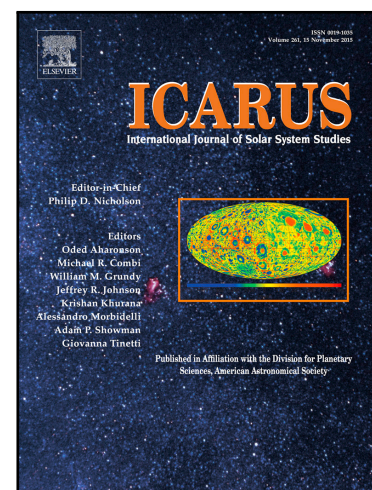
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Highlights:

- We show that the regularity, dimensions, global coordination, and structural content of the layering discovered in the interiors of comet 67P/Churyumov-Gerasimenko and 9P/Tempel 1 can be formed as the result of a late-Centaur stage evolutionary process (roughly a million years ago), when amorphous to hexagonal water ice, self-sustaining, phase-change fronts sweep rapidly through the entire nucleus transforming the interior in a few thousand years.

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