

New work has determined the three-dimensional capsid structure of two members of the family *Partitiviridae*, one of the last dsRNA families to have its structure solved. Shown here is the *Penicillium stoloniferum* virus S, resolved to 7.3 Å and colored by radius. The 3D reconstruction was assembled from 14 246 individual particle images obtained with cryoEM. The 35-nm-diameter capsid is marked by 60 protruding arches, each formed by a protein dimer. A subtly different arched structure was found for the related *P. stoloniferum* virus F and resolved to 3.3 Å by x-ray crystallography. (W. F. Ochoa et al., *Structure* **16**, 776, 2008; J. Pan et al., *Proc. Natl. Acad. Sci. USA* **106**, 4225, 2009. Image: W. F. Ochoa, UC San Diego; source: San Diego Supercomputer Center, UCSD.)

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