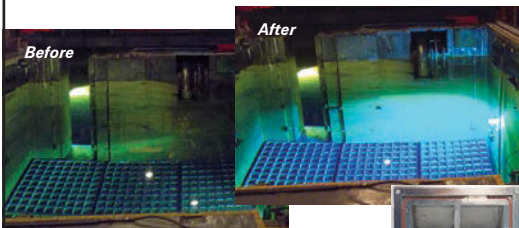


Ruslan Yunusov, head of Rosatom's project office for creating a quantum computer, said, "We are confident that as a result of this joint work, innovative

solutions to the most complex problems will be proposed, and not only in the nuclear industry."

## ROS Breakthroughs in LED Nuclear Pool Lighting

### ROS HP-LED Pool Light



#### Ultra High-Intensity LED Delivers 30,000 Lumens

- Brighter and Whiter LED Lighting enhances ability to see and prevent problems and increases operational efficiency.
- On-going In-house underwater HP-LED Performance test at 4 years and counting with no problems indicated.

### BETTER INSPECTIONS WITH ROS TECHNOLOGY

### New HP-LED Dual Droplight

30,000 Lumens  
Perfect for Spot or Inspection Lighting



Not your average Droplight, it's more like sunlight right where you need it. **Includes 100' cable.**

### PTZ-R Unshielded High Radiation Color Camera System



#### PTZ-R Features:

- 380° Pan & 155° Tilt Capability
- Dual LED lighting array
- Watertight to 100 meters
- Lasts 50 times longer than standard CCD cameras.
- Field tested in excess of 150K Rad/hr and to accumulated dose of 3M Rad/hr with no service required.

100% Patented Digital Technology delivers exceptional color clarity and resolution for better inspection information.

Test video available at [www.rosys.com](http://www.rosys.com)

For More Information and Technical Specifications  
Contact: [sales@rosys.com](mailto:sales@rosys.com) or Visit: [www.rosys.com](http://www.rosys.com)



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### COVID-19

### X-rays size up protein structure at the "heart" of virus

A team of researchers at the Department of Energy's Oak Ridge and Argonne national laboratories has performed the first room-temperature X-ray measurements on the SARS-CoV-2 main protease, the enzyme that enables the virus to reproduce.

The X-ray measurements mark an important first step in the researchers' ultimate goal of building a comprehensive 3D model of the enzymatic protein.

The model will be used to advance supercomputing simulations aimed at finding drug inhibitors to block the virus's replication mechanism and help end the COVID-19 pandemic. The team's research results are available and were published on June 24 in the journal *Nature Communications*.

SARS-CoV-2 is the virus that causes the disease COVID-19. The virus reproduces by expressing long chains of proteins that must be cut into smaller lengths by the protease enzyme.

"The protease is indispensable for the virus life cycle," said Oak Ridge National Laboratory's Andrey Kovalevsky, corresponding author. "The protein is shaped like a valentine's heart, but it really is the heart of the virus that allows it to replicate and