

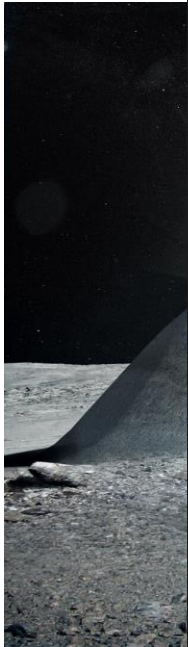
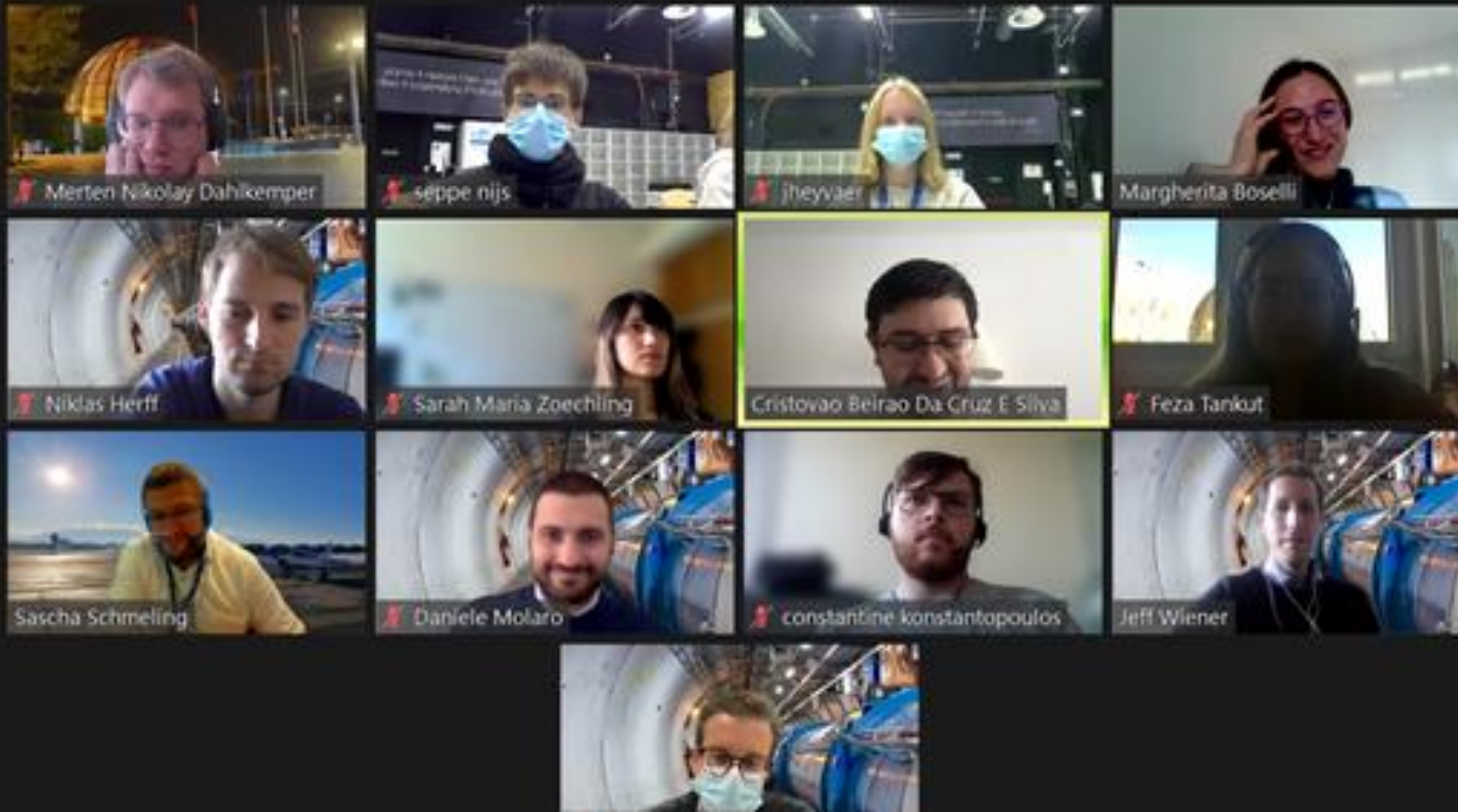


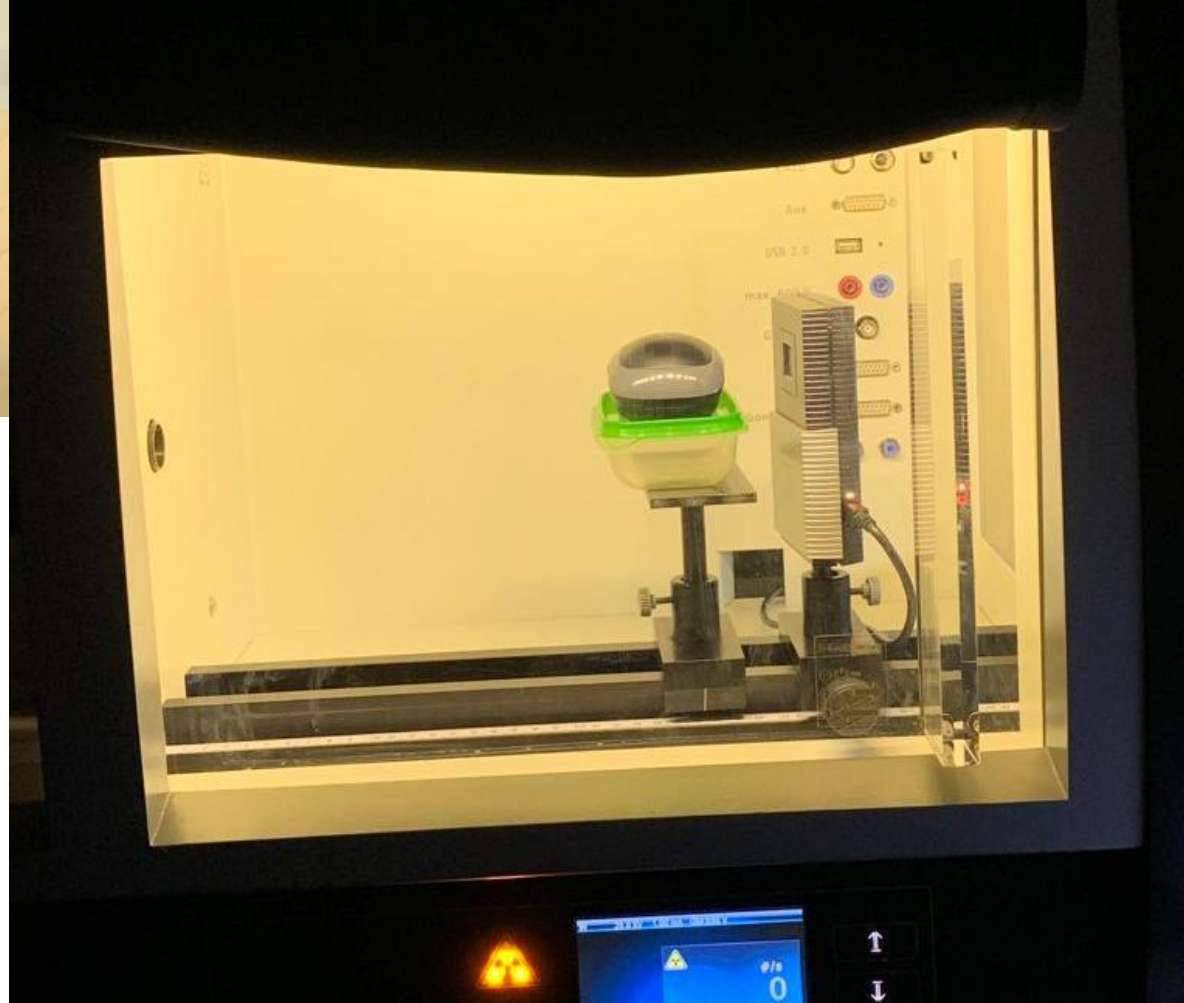
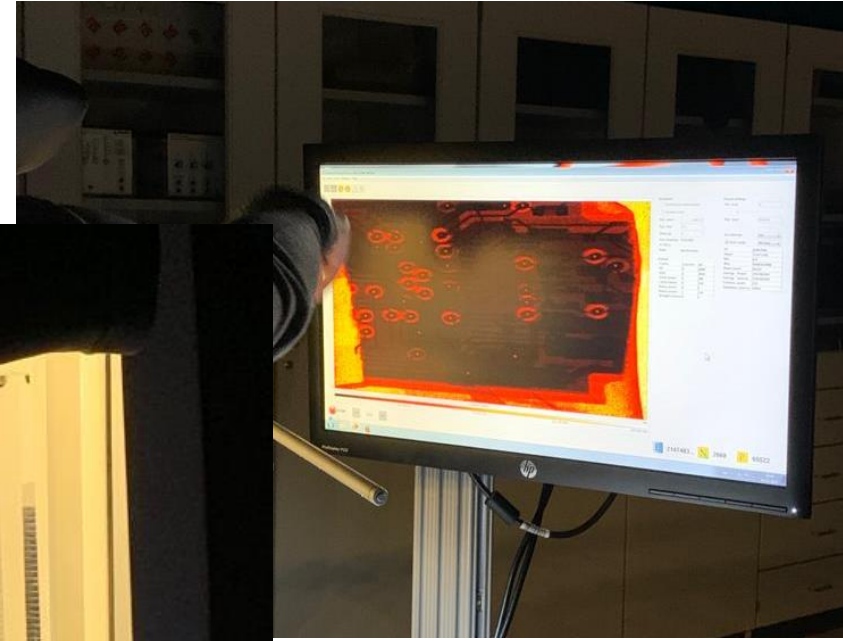
Enhancing CERN's  
Educational resources  
database to test,  
evaluate and design  
science workshops

Activity Name	Activity Type	Description	Website link(s)
The emptiest space in our solar system	theory task	A series of calculations using the ideal gas law to approximate the pressure inside the LHC.	<a href="http://iopscience.iop.org/article/10.1088/0031-9120/46/1/005/meta">http://iopscience.iop.org/article/10.1088/0031-9120/46/1/005/meta</a>
Bring energy to the physics classroom with the Large Hadron Collider at CERN	theory task	A series of calculations of the energy contained in the beam and magnets of the LHC	<a href="http://iopscience.iop.org/article/10.1088/0031-9120/44/1/011/meta">http://iopscience.iop.org/article/10.1088/0031-9120/44/1/011/meta</a>
Check your timing	exhibit	An analog of a linear accelerator that uses alternating puffs of air to mimic the action of an electric field in the real linac.	<a href="http://ed.fnal.gov/lsc_exhibits/list.html">http://ed.fnal.gov/lsc_exhibits/list.html</a> >> <a href="#">accelerators</a>
How much Energy in the Ring	exhibit	Circular accelerator analog where students push a ball by hand.	<a href="http://ed.fnal.gov/lsc_exhibits/list.html">http://ed.fnal.gov/lsc_exhibits/list.html</a> >> <a href="#">accelerators</a>
How much energy in the lego ring	exhibit	There is a motor that accelerates the ball as it passes to keep the ball rolling. This teaches students about circular accelerators and the importance of timing.	<a href="http://ed.fnal.gov/lsc_exhibits/list.html">http://ed.fnal.gov/lsc_exhibits/list.html</a> >> <a href="#">accelerators</a>
		A large cylinder has a spiral track for balls to roll around the outside from top to bottom. A vertical stripe down the side of the exhibit marks off four equal lanes of the track, and there is a	

# Database

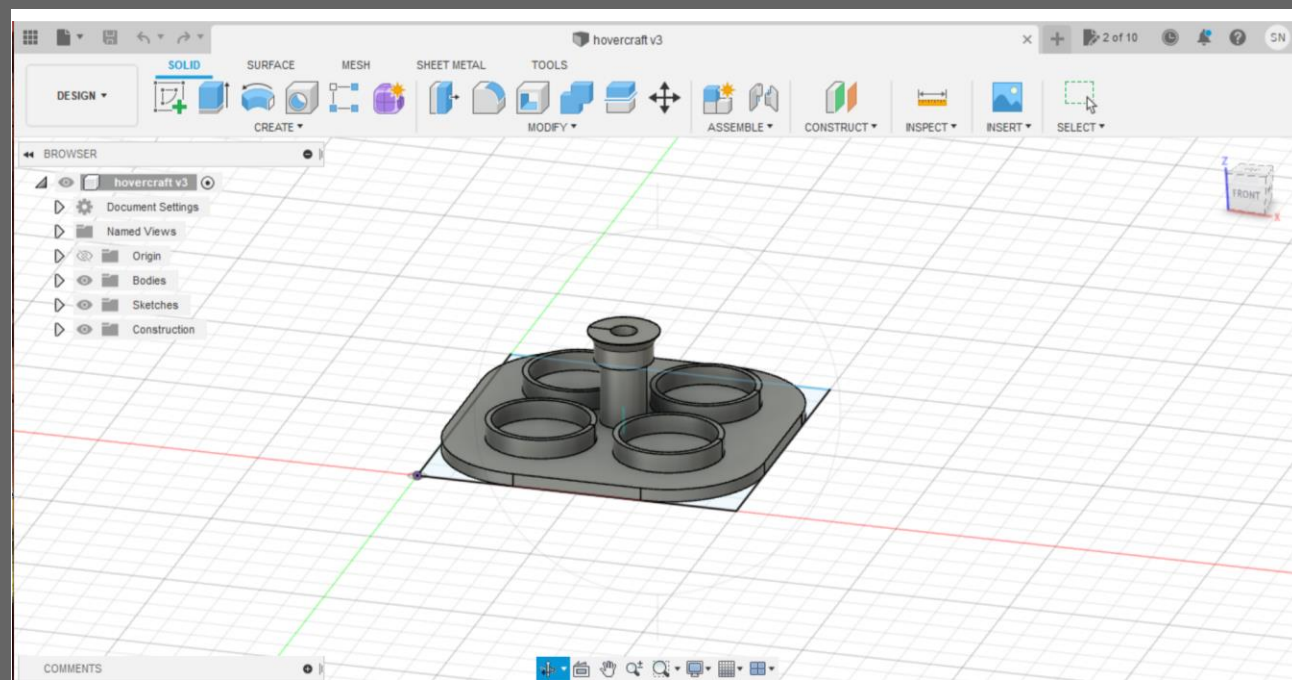
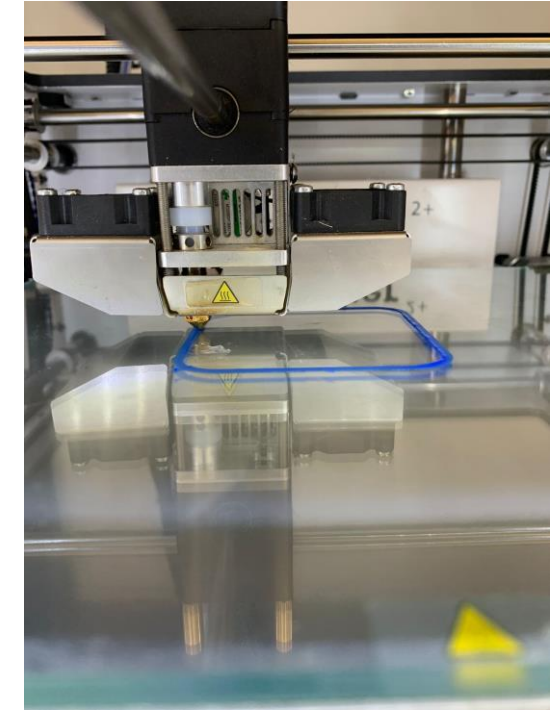
# Evaluate Moon shelter & Jet of steam from boiling flask





ents

# Design 3D printed Hovercraft





Other

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Thank you  
for listening