The combination of composite fabrication methods and industrial-scale robotics allow us to investigate moving volumes as highly spatial, architectural installations. The complexity of this installation lies in the choreographed motion of two proto-architectural figures. These two carbon-fibre shells are designed with interlocking apertures, structural ribs that accentuate the perceived motion from the inside, and degrees of translucency that create secondary apertures. Held by two industrial robots, the volumetric shells will be moved from an interlocking configuration to positions where the shells will be perceived as independent rooms.

The shells are designed to allow single visitors to stand inside the configured room and perceive the motion as an architectural interior. Cameras inside the two volumes capture footage through the volumes and across apertures to create effects of volume, vastness, and dislocation. As the installation space and visitors would create static points in the capture footage, the live feed of the two cameras would have similarities to simulations of planetary motion. This dislocating and gravity-defying effect will be projected into the gallery space so that the interiority of this installation becomes the highlight of the spectacle.
2 Installation V Perspective

3 Sequence

4 Elevation 1:25
IMAGE CREDITS
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RANGEL KARAIVANOV is a current architecture student at the University of Applied Arts in Vienna since 2009 and has studied at the Southern California Institute of Architecture in 2012. During this time he was Student Assistant for CNC-Fabrication as well as Research Assistant at the Biomametics Research Team lead by Barbara Imhof in 2011. Rangel worked with various architecture and design offices such as Delugan Meissl Associated Architects (2010, Vienna), TestaWeiser Inc. (2012, Los Angeles) and Wideshot Design (2013, Vienna). His projects are focusing on the integration of new media and robotics in architecture. His works has been exhibited internationally and he was recently awarded 1st prize on the Design for Death Competition in collaboration with Marta Piaseczynska.

MARTA PIASECZYNSKA studies architecture since 2010 in the University of Applied Arts in Vienna in Greg Lynn studio. In 2013 she has been studying in the Southern California Institute of Architecture where she was a part of Hernan Diaz Alonso studio. Since the beginning of her studies, Marta has been working in school as well as in professional practice. She has held a position of CNC fabrication assistant and worked in various offices such as Bollinger-Grohmann-Schneider in Vienna, Michael Wallraff in Vienna and Synthesis Design + Architecture in Los Angeles. Studying in a rich design environment she developed an interest in film and animation both for developing architectural designs as well as communicating projects and ideas. She was recently awarded 1st prize on the Design for Death Competition in collaboration with Rangel Karaivanov.

JUERGEN STROHMAYER is a student at the University of Applied Arts Vienna since 2009 and will complete his studies in January 2015. Juergen has been developing projects and collaborations in various cultural contexts that build on his interest in high performance architecture with social, technological, and formal relevance. Juergen has worked with international offices such as Wideshot Design (Vienna, Austria), Synthesis Design + Architecture (London, UK / L.A., USA), and Amanda Levete Architects (London, UK). A number of onsite projects through the academic labs [applied] ForeignAffairs (University of Applied Arts Vienna) in Ghana and the D.R. Congo resulted in visits and re-visits, exhibitions in Africa and Europe, and international publications. The project, ”Guabuliga – Well by the Thorn Tree” was rewarded in the Bauhaus Solar Award 2012.