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SOLAR THERMAL ENERGY
RESEARCH GROUP



The capability of a novel jet impingement heat transfer device in thermal receivers

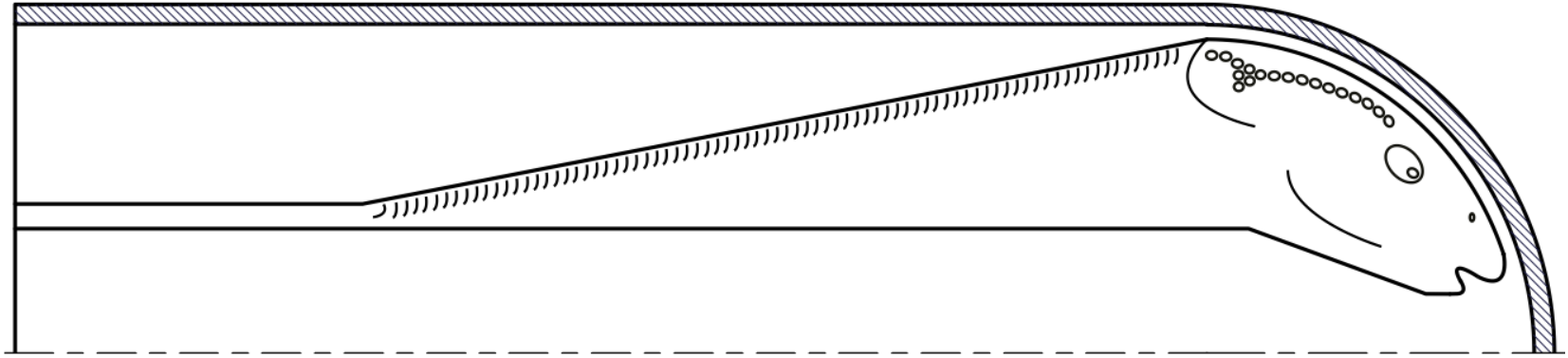
D.J. Erasmus, M. Lubkoll, K.J Craig, T.W. von Backström

Operating considerations of solar thermal receivers

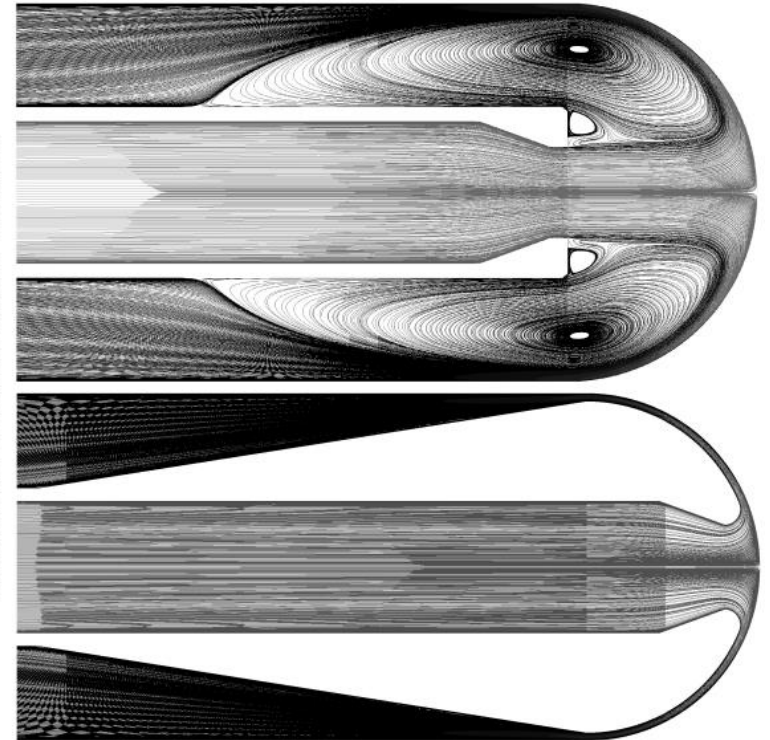
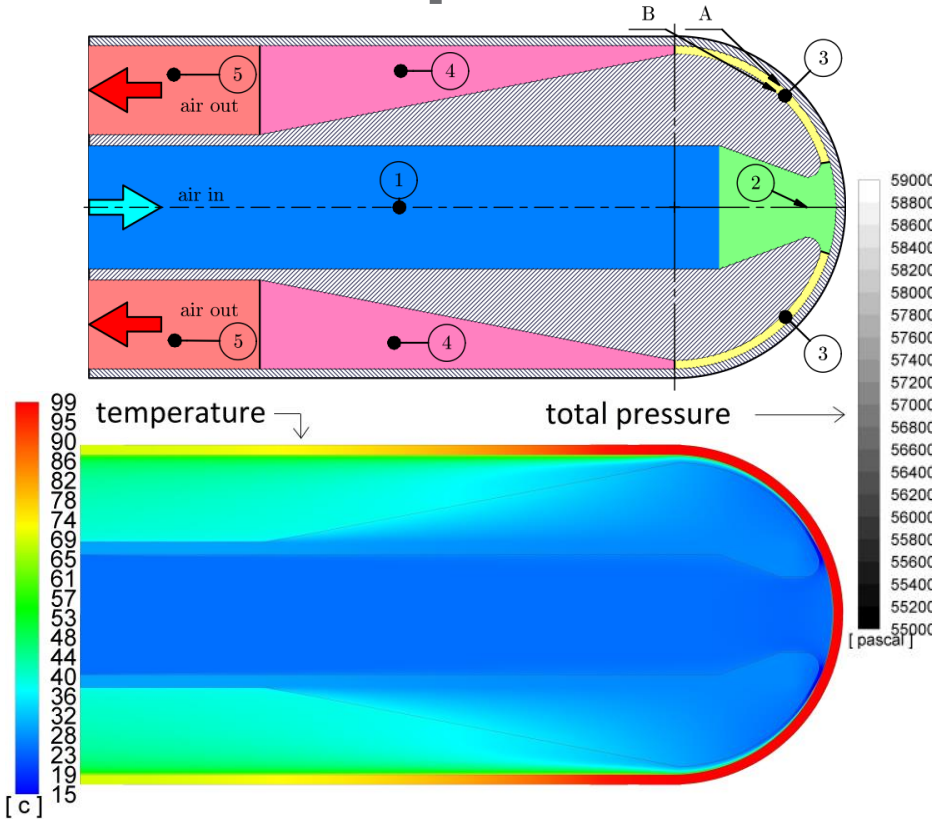


- Heat transfer characteristics
- Total pressure loss

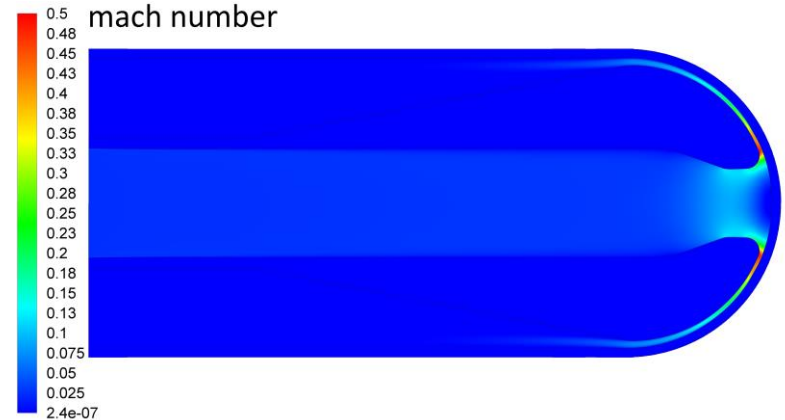
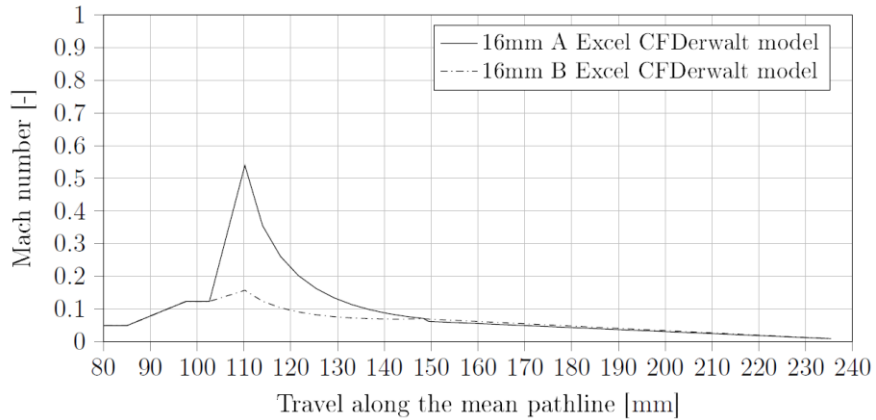
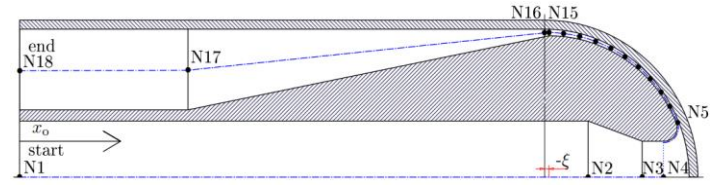
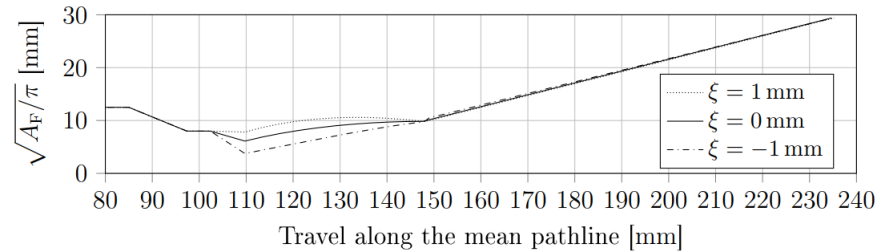
The Tadpole



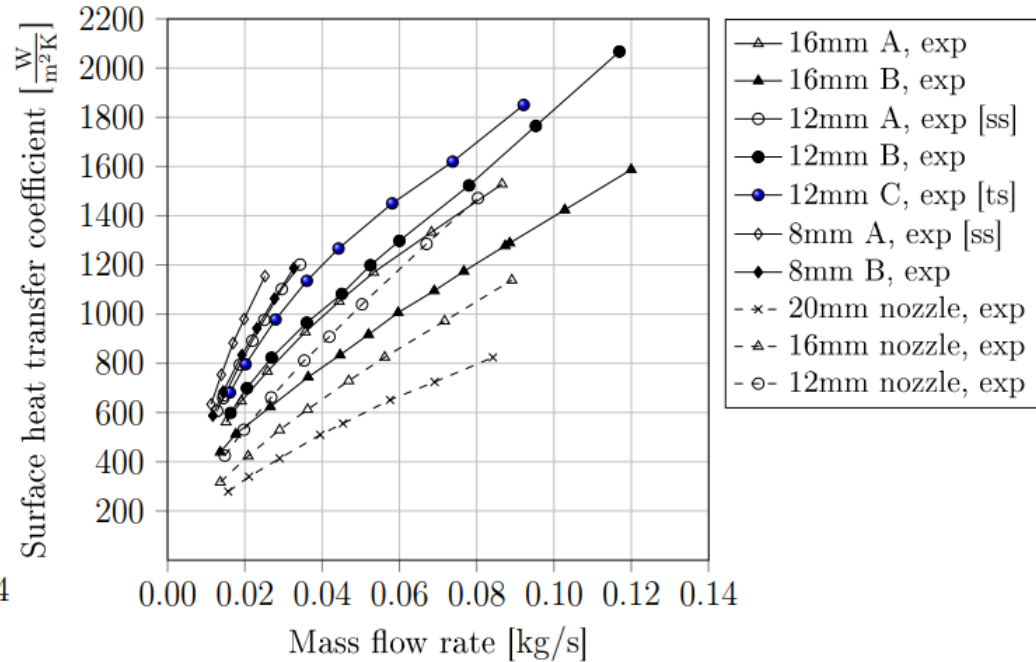
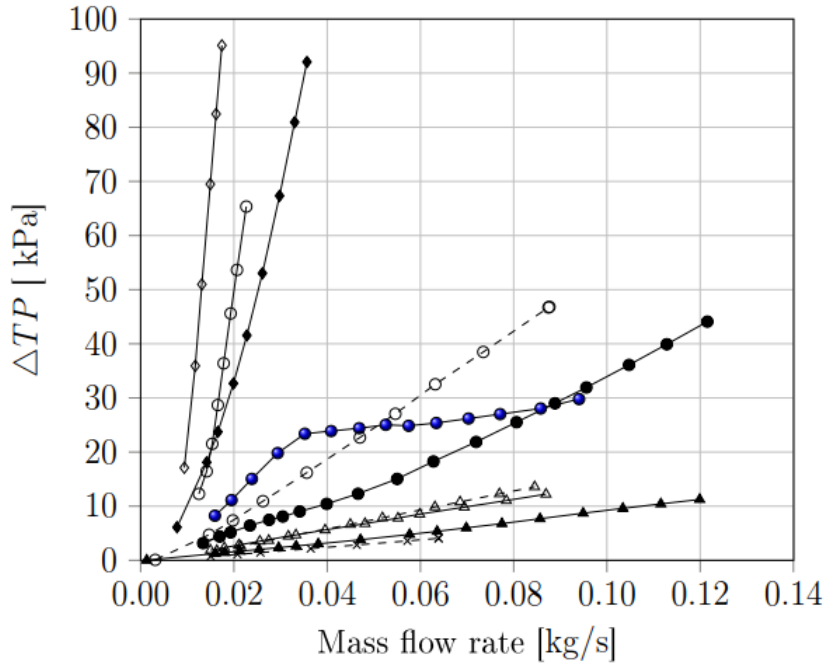
The Tadpole



Understanding the flow around the Tadpole



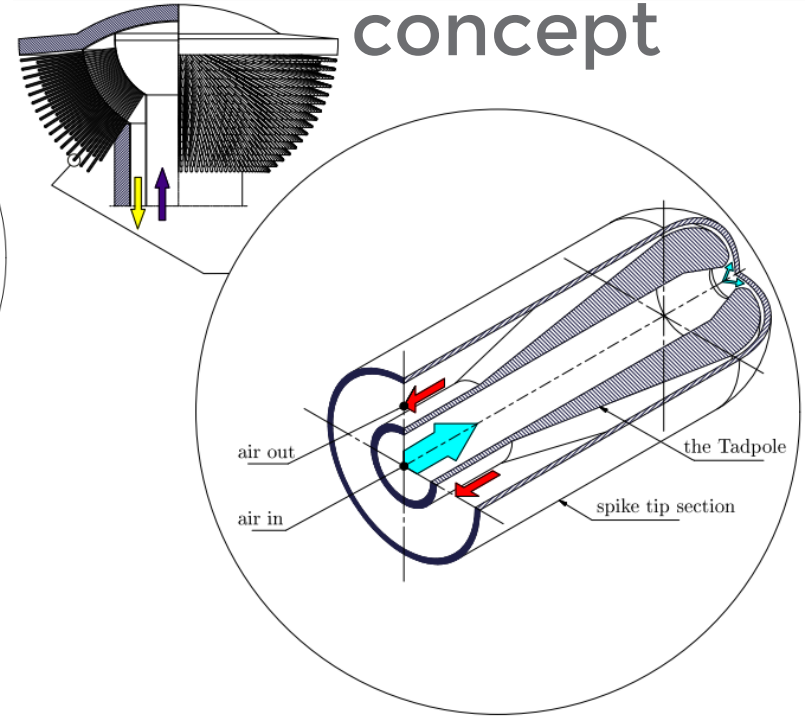
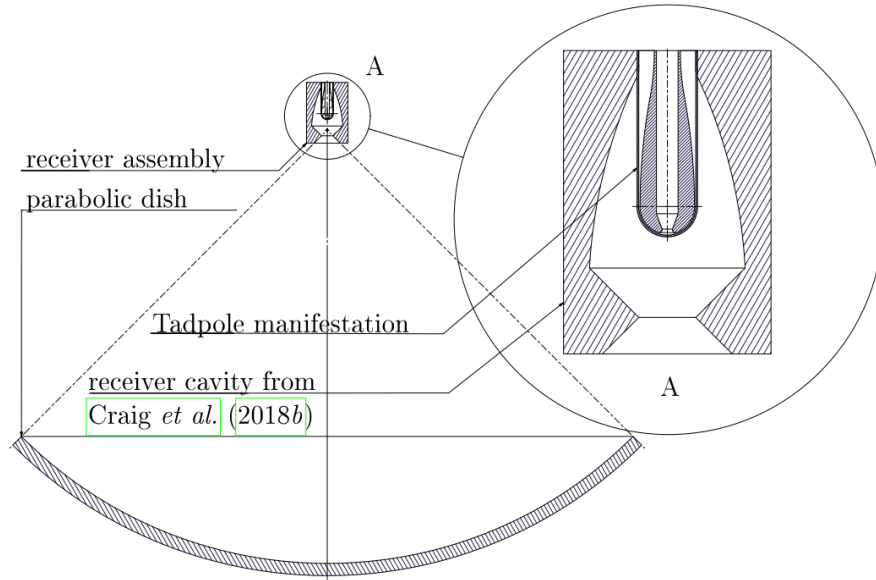
Experimental results



Applications of the Tadpole



The SCRAP concept

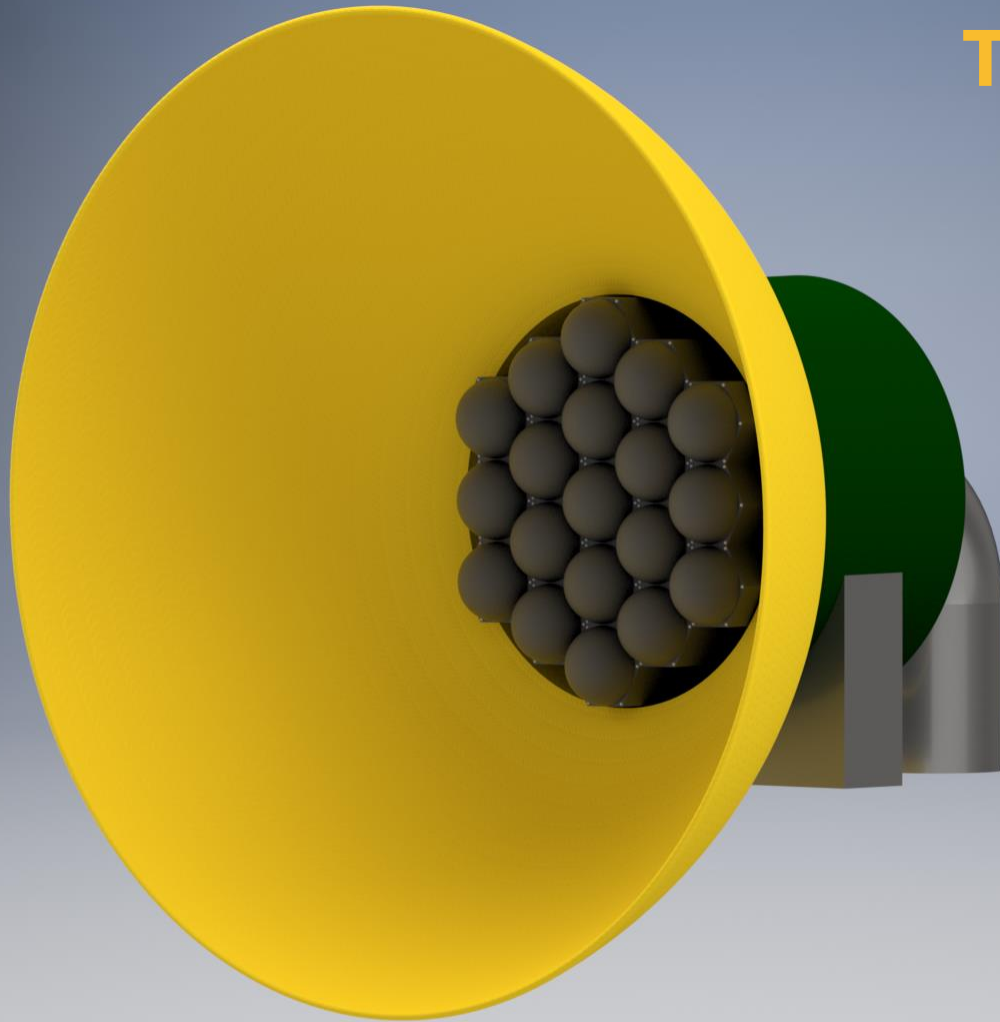


The Tadpole receiver

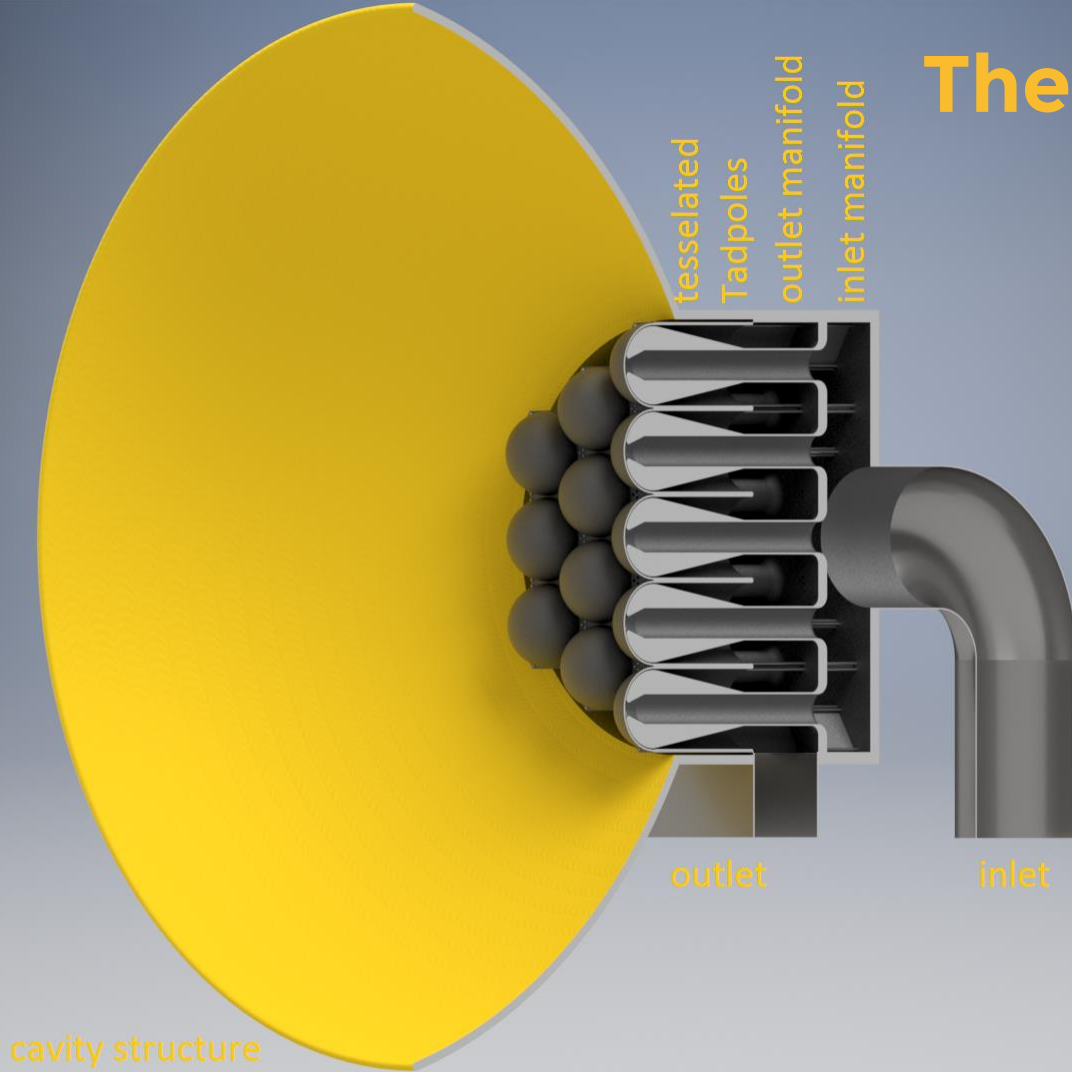
A sunflower



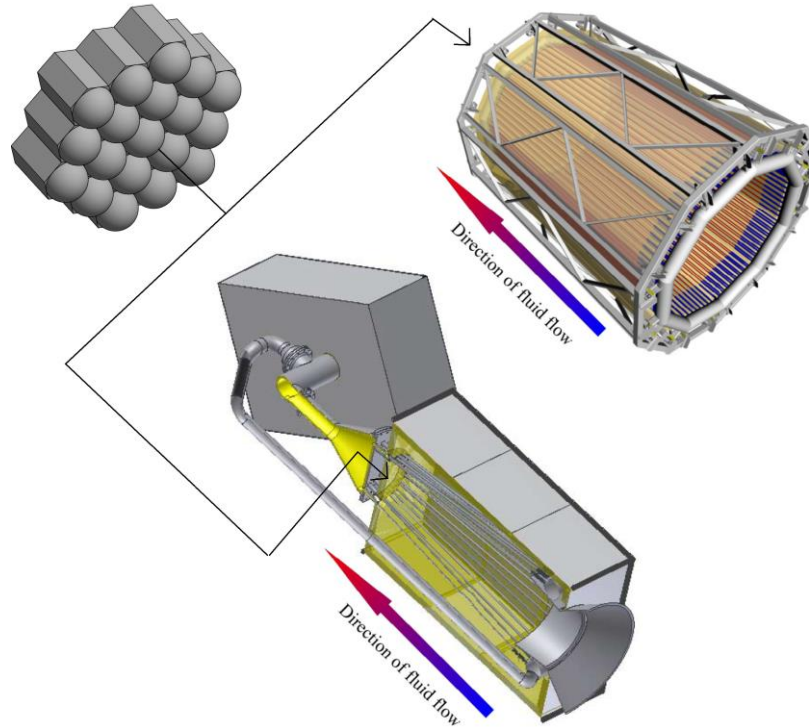
The SUNflower



The SUNflower



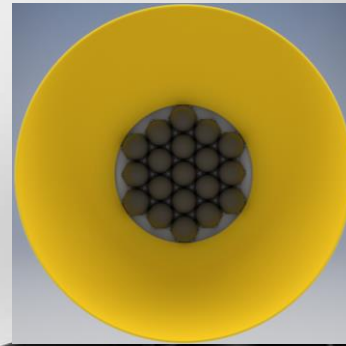
Application of the SUNflower on SOLHYCO (left) and SOLUGAS (right)



Thank you

ACKNOWLEDGEMENTS:

- Prof Von Backström, Dr Matti Lubkoll, Prof Ken Craig, David McDougall, Jesse Quick for their assistance in this work
- STERG for the funding of this masters degree
- STERG for research a travel grant
- Stellenbosch High Performance Computer (HPC) - Rhasatsha



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