

# Validation of DEGAS 2 Model for Li – He Diffusive Evaporation

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- DEGAS 2 simulations used to design prescription for XP-951 Li evaporation into He.
  - Will be comparing with resulting QMB data for PSI-19.
  - But, have only one QMB & other complications.
- Can do better:
  - Test toroidal dependence by operating LiTERs separately.
  - Use multiple QMBs to test poloidal dependence.
  - Test sensitivity of deposition to details in LiTER velocity distribution,
    - Should drop with increasing  $P_{\text{He}}$ .
- If comparison of QMB data with DEGAS 2 simulations unsatisfactory, may be able to calibrate model to give good match,
  - $\Rightarrow$  Either way, get a tool that can be used for controlling Li deposition patterns.
- Propose sequence of dedicated evaporations to get these data,
  - Somewhere between 5 & 10.
  - Only rate is needed from QMB, so evaporations could be just a few minutes.
    - $\Rightarrow$  Piggyback on a normal evaporation sequence?