Lithium Vapor Box Divertor Concept

- Provide a localized cloud of Li vapor away from main plasma
 - Evaporation at ~ 750° C
 - Condensation at ~ 3-400° C (determines DT pumping)
- Return liquid lithium to evaporator.
- Creates strong vapor gradient.
 - Detachment front cannot run up to x-point.
 - Detachment front location is resilient to variable heat flux.
- Cannot be achieved with gaseous impurities pumping is too weak.
- Use low-Z Li for divertor radiation, higher Z upstream.

