

The diagram illustrates the energy flux in the mesosphere. A green Earth is at the bottom, with a blue background representing the atmosphere. Two dotted blue lines delineate the STRATOSPHERE and MESOSPHERE layers. An orange arrow labeled 'EMIC-driven (LC) INPUT' points from the top left towards the center. A pink arrow labeled 'Backscattered OUTPUT' points from the center towards the top right. In the center, a cluster of white dots represents ionization, with labels  $i^+$  and  $e^-$ . Text labels indicate energy flux values and their sources:  $\sim 0.033 \frac{\text{erg}}{\text{cm}^2 \text{s}}$  from ELFIN,  $\sim 0.025 \frac{\text{erg}}{\text{cm}^2 \text{s}}$  from BERI ionizing the mesosphere (~74% of input), and  $\sim 0.008 \frac{\text{erg}}{\text{cm}^2 \text{s}}$  from BERI backscattered output.

**EMIC-driven (LC) INPUT**

$\sim 0.033 \frac{\text{erg}}{\text{cm}^2 \text{s}}$   
||from ELFIN||

**Backscattered OUTPUT**

$\sim 0.008 \frac{\text{erg}}{\text{cm}^2 \text{s}}$   
||from BERI||

$\sim 0.025 \frac{\text{erg}}{\text{cm}^2 \text{s}}$  ionizes mesosphere  
(~74% of input energy flux)  
||from BERI||

STRATOSPHERE

MESOSPHERE