











 Lecture 18 CH131 Fail 2020
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 Heat (energy) flow → entropy change

 Does the entropy increase depend on how much energy is initially present?

 Image: transformed by the entropy increase depend on how much energy is initially present?







Letture 18 CH131 Fall 2020 **Spontaneity means** that what happens is always associated with an increase in entropy. We will see that it is useful to partition entropy change as that due to the chemical or physical system (what we are interested in) and the surroundings (everything else).  $\Delta S_{tot} = \Delta S_{sys} + \Delta S_{sur} \ge 0$ 15











## 11/19/2020 9:53 AM





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