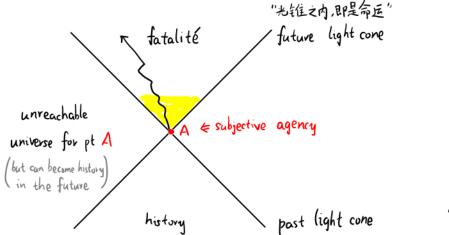
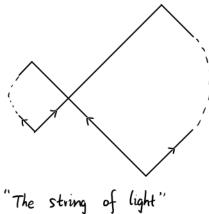
## Eine Woche, ein Beispiel 5.22. theory of relativity

After seeing one video on Bilibili, I discuss with Qirui Li about it and collect it here. Lots of references are in Chinese  $\neg$  ( $-\_$ -)  $\Gamma$ 

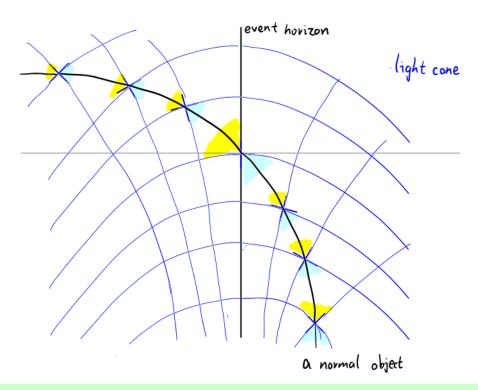
Original video: https://www.bilibili.com/video/BV17P4y1V7BX





## Q: How's the theory of relativity near the black hole?

See https://www.zhihu.com/question/19589015/answer/15866164 https://en.wikipedia.org/wiki/Black\_hole https://en.wikipedia.org/wiki/Penrose\_diagram I don't believe that I understand the Penrose diagram. https://www.youtube.com/watch?v=EkE229ybABc



Idea: space->time, time->space A black hole inside another black hole?

Maybe the concept of simultaneity can only be made locally. What's the Lorentz Transformation near the black hole?