Eine Woche, ein Beispiel 820 diagonalizable group

Ref:

[Borel91]: Borel, Linear Algebraic Groups https://link.springer.com/book/10.1007/978-1-4612-0941-6

[PerrinAG]

http://relaunch.hcm.uni-bonn.de/fileadmin/perrin/ag-chap3.pdf http://relaunch.hcm.uni-bonn.de/fileadmin/perrin/ag-chap4.pdf

[Eberhardt23]: lecture notes of "spaces in GRT" https://jenseberhardt.com/teaching/W2324data/Spaces%20in%20GRT.pdf

In this document, t is a field. In [Pernin AG], x=t; in [Eberhardt23], x=t, char x=0

https://mathoverflow.net/questions/12118/what-is-an-algebraic-group-over-a-noncommutative-ring https://mathoverflow.net/questions/448426/is-diagonalizability-a-local-property

https://math.stackexchange.com/questions/3237148/how-does-an-affine-algebraic-group-become-a-group-scheme

Chevalley's structure thm. [wiki] For x perfect, every sm conn alggp is an extension of an abelian variety by sm conn linea alggp.

We mainly follow [Borel 91, §8] in the following material.