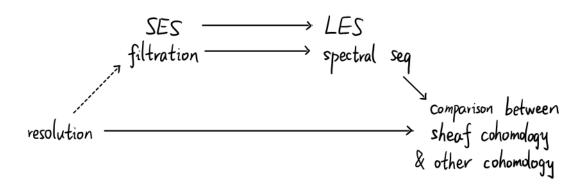
Eine Woche, ein Beispiel 1.28 conormal bundle

slogan:

SES induces LES, filtration induces spectral sequence.

To expend a little bit,



Even though "filtration \Rightarrow spectral seq" is the most general statement, people start with "SES \Rightarrow LES" and "acyclic resolution \Rightarrow other coh \approx hyper coh". Let us leave spectral seq in other people's notes.

Methods to construct SES: $\begin{cases} \text{check by stalks} \\ \text{filtration by } \text{H}^i(F) \\ \text{filtration by } F^i \end{cases}$

method	spectral seq	LES	cohomology/resolution
check by stalks	for stratifications	velative coh seq	simplicial/cellular
	Čech-to-derived fctor	M٧	Čech
	Grothendieck		
filtration by Hi(F)	<u>Leray-Serre</u>	Gysin	Eulex closs
		•	Hodge-Tate
	Hodge-de Rham		de Rham, Hadge-de Rham
filtration by Fi	-		Dolbeault $H^{P}(X, \Omega^{q}) = H^{P, q}(X)$
need resolution	Frölicher		$H^{p,q}(X) \Rightarrow H^{p+q}(X)$ "composition
to get "another" complex			singular
	Adams		for stable homotopy gp
	Atiyah - Hirzebruch		for top K-theory
spectral sequences	Bar		for group
'	Bockstein		for group homology
which	Cartan - Levay		
	Eilenberg-Moore		
I don't know	Green		for Koszul cohomology
	;		:

For more spectral sequences, see: https://en.wikipedia.org/wiki/Spectral_sequence https://github.com/CubicBear/SpectralSequences/blob/main/SpecralSequences.pdf

- 1. open-closed formalism

- 2. open Cover
 3. filtration by H'(F')
 4. Hodge related filtration