Eine Woche, ein Beispiel
10.6 Chow group notation

Ref:
Murre, Jacob P., Jan Nagel and Chris A. M. Peters. Lectures on the Theory of Pure Motives. Univ. Lect. Ser. Providence, RI: American Mathematical Society (AMS), 2013.

Setting: X: sm proj variety over k

$$\underbrace{\operatorname{Pic} X \overset{\mathbb{Z}^{\rho(X)}}{\supset} \underbrace{\operatorname{Pic}^{\tau} X}_{N^1(X)} \overset{torsion}{\supset} \operatorname{Pic}^0 X}_{NS(X)} \overset{scheme}{\supset} 0$$

$i = 1$:

$$Div(X) \quad Z^i(X) \;\underline{\qquad\qquad}\; Pic(X) \quad CH^i(X)$$

$$\Vert$$

$$Div^{\tau}(X) = Div_{num}(X) \quad Z^i_{num}(X) \;\underline{\qquad\qquad}\; Pic^{\tau}(X) \quad CH^i_{num}(X) \qquad N^i(X) \quad Nm^i(X)$$

$$\Vert \qquad\qquad \Vert$$

$$Div_{hom}(X) \quad Z^i_{hom}(X) \;\underline{\qquad\qquad}\; Pic^{\tau}(X) \quad CH^i_{hom}(X)$$

$$\Vert$$

$$Div_{alg}(X) \quad Z^i_{alg}(X) \;\underline{\qquad\qquad}\; Pic^0_{red}(X) \quad CH^i_{alg}(X) \qquad NS(X)$$

$$\Vert$$

$$Z^i_{rat}(X)$$

Examples:

https://mathoverflow.net/questions/275674/jacobians-of-curves-with-maximal-picard-number
https://mathoverflow.net/questions/219312/what-is-the-formula-for-the-homology-class-represented-by-the-diagonal
https://mathoverflow.net/questions/74181/cohomology-class-of-the-diagonal
https://math.stackexchange.com/questions/1506182/pull-back-of-push-out-under-the-diagonal-embedding

Computaion with sage (for toric varieties)
[The Chow group of a toric variety - Schemes
(sagemath.org)](https://doc.sagemath.org/html/en/reference/schemes/sage/schemes/toric/chow_group.html)