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
$$k$$

$$Pic X \stackrel{Z^{\rho(X)}}{\supset} Pic^T X \stackrel{torsion}{\supset} Pic^0 X \stackrel{scheme}{\supset}$$

$$i=1:$$

$$Div(X) Z^i(X) \frac{}{} Pic(X) CH^i(X)$$

$$Div(X) \quad Z^{i}(X) = Div_{num}(X) \quad Z^{i}_{num}(X) = Div_{hom}(X) \quad Z^{i}_{hom}(X) = Div_{hom}(X) \quad Z^{i}_{hom}(X) = Div_{hom}(X) \quad Z^{i}_{hom}(X) = Div_{alg}(X) \quad Z^{i}_{alg}(X) = Div_{alg$$

[algebraic geometry - Motive of a curve and its Jacobian - Mathematics Stack

Exchange](https://math.stackexchange.com/questions/1274303/motive-of-a-curve-and-its-jacobian)

[algebraic geometry - What is this cycle on the Jacobian of a curve? - Mathematics Stack

Exchange](https://math.stackexchange.com/questions/681492/what-is-this-cycle-on-the-jacobian-of-a-curve?rq=1)

[algebraic geometry - Chow motives of quadratic fields - Mathematics Stack

Exchange](https://math.stackexchange.com/questions/854610/chow-motives-of-quadratic-fields?rq=1)

Kunneth is complicated for Chow ring

[ag.algebraic geometry - Chow ring of two varieties - MathOverflow](https://mathoverflow.net/questions/159959/chow-ring-of-two-varieties)
https://mathoverflow.net/questions/6834/kunneth-formula-for-motivic-cohomology

sheaf version of Chow group:

https://math.stackexchange.com/questions/3019937/chow-groups-with-coefficients-in-a-local-system

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

Computation 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)