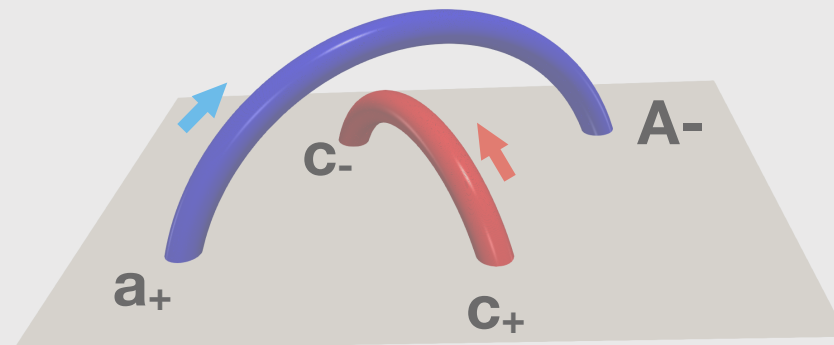
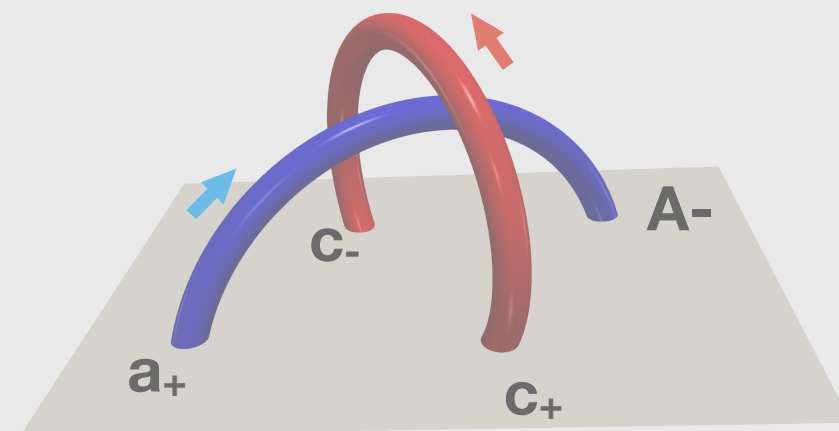


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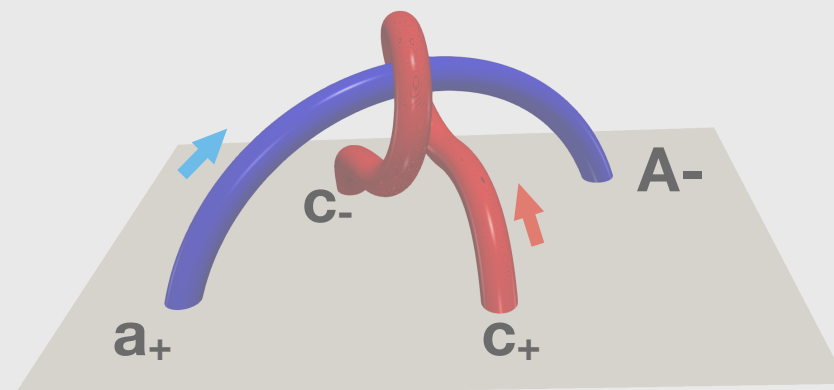
a $H = \mathcal{L}_{\hat{\mathbf{a}},c}^{\text{arch}} \Phi_a \Phi_c$



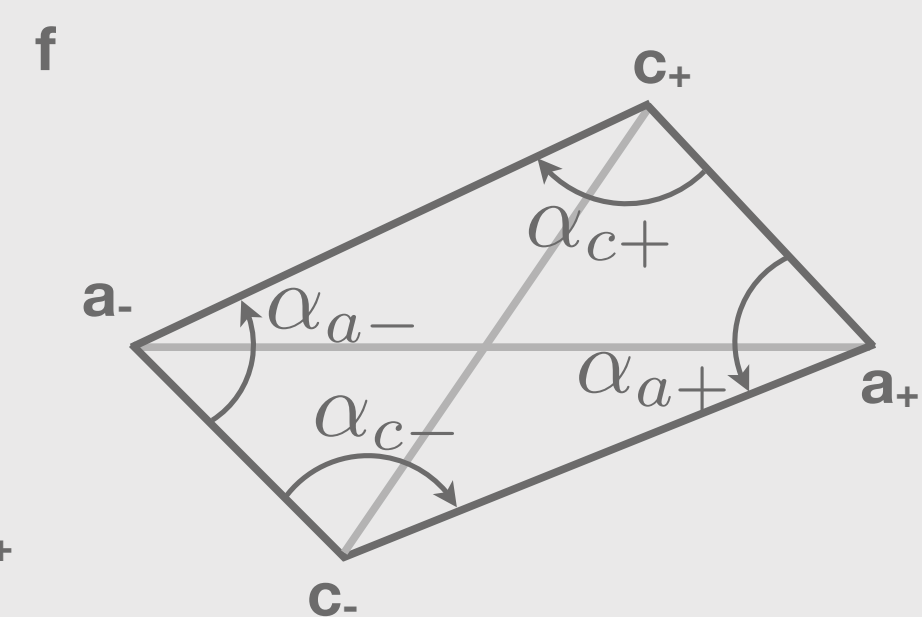
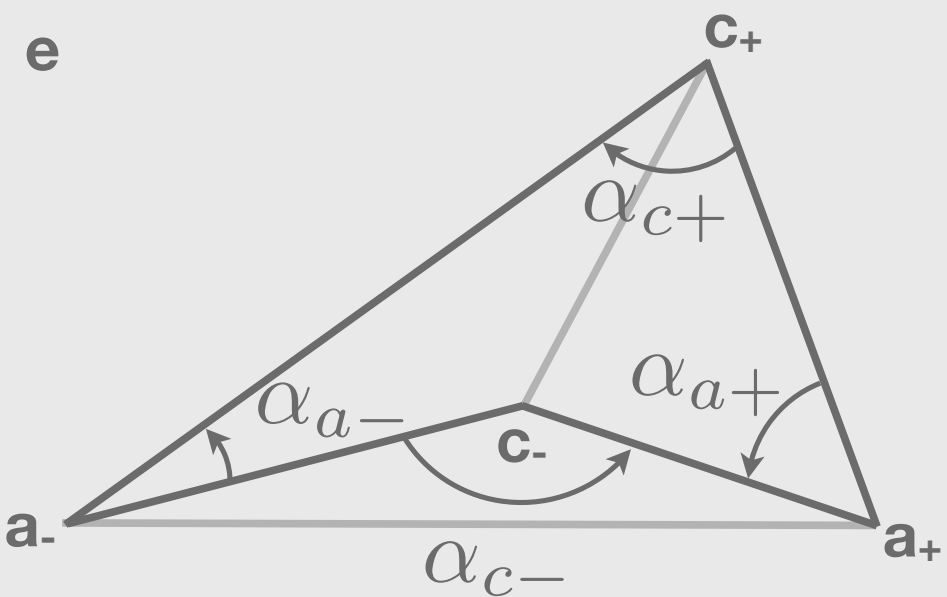
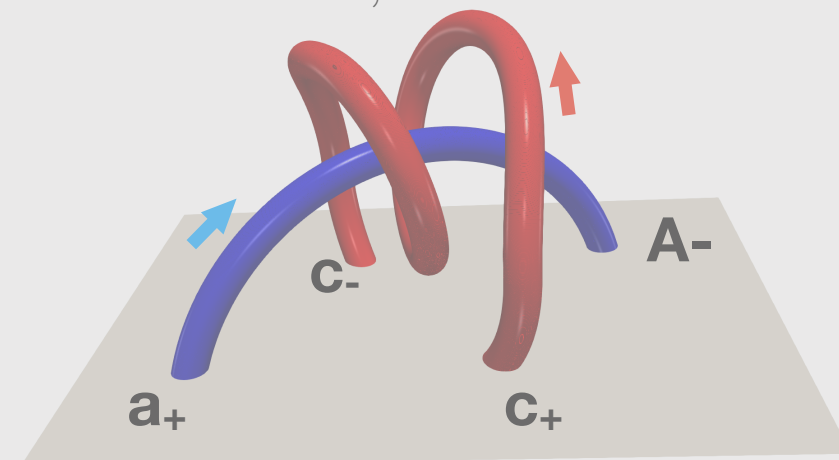
b $H = (\mathcal{L}_{\hat{\mathbf{a}},c}^{\text{arch}} - 1) \Phi_a \Phi_c$



c $H = (\mathcal{L}_{\hat{\mathbf{a}},c}^{\text{arch}} + 1) \Phi_a \Phi_c$



d $H = (\mathcal{L}_{\hat{\mathbf{a}},c}^{\text{arch}} - 2) \Phi_a \Phi_c$





Introduction: Specific Topology Quantities 3

Topology Boundary and Topological Invariant

Poincare Index

$$M_{\mathbf{B}} : \mathbf{r} \mapsto \frac{\mathbf{B}(\mathbf{r})}{|\mathbf{B}(\mathbf{r})|}$$

For A, B type null,
they are given +1
and -1, respectively.

