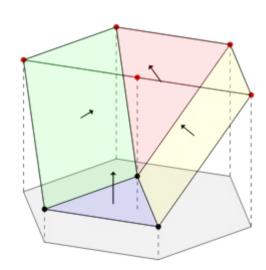
## 711



$$\sum_{i} c_{i} \int \frac{k \cdot p_{i} \cdot k \cdot q_{i} \cdot k \cdot k}{(k^{2} - m^{2}) \cdot ((k - p_{i}^{2} - m^{2}) \cdot \dots \cdot k)}$$



## Method of regions

https://yannickulrich.gitlab.io/loop-integration/notes/S4.html

Exact integrals are complicated It is necessary to simplify them to make calculable: Method of regions split full phase over different regions  $m\sim0$ ,  $k\sim m2$ ,  $k\sim s$ 

→ simplification of integral

Geometrical method is used to find different regions in more complicated cases. This can be automatized

