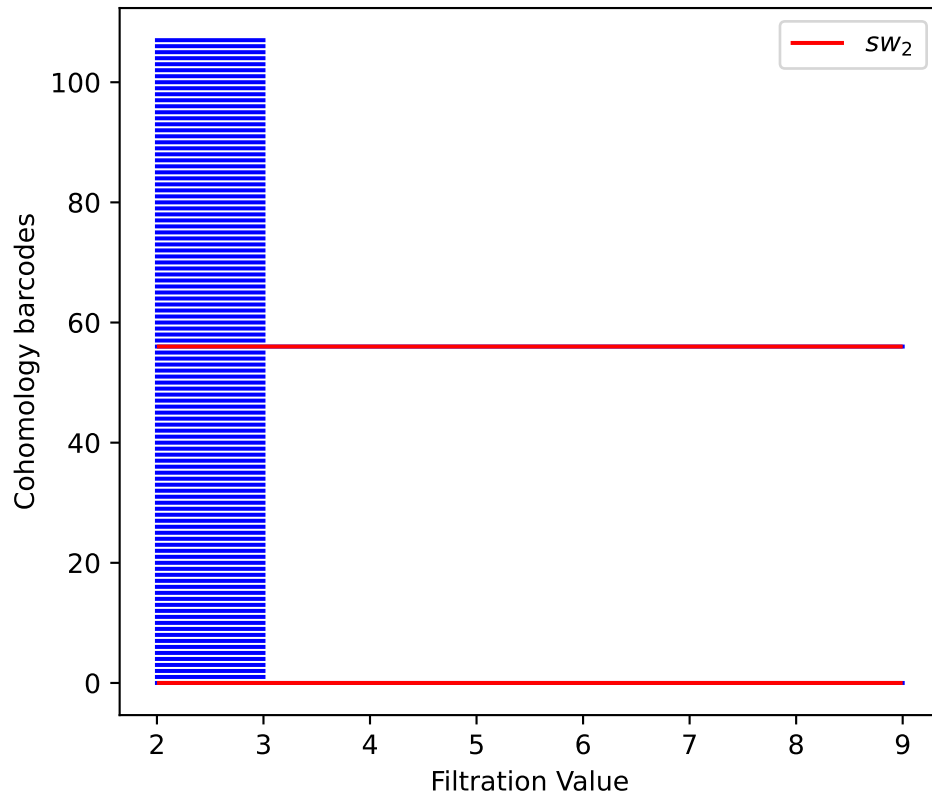


2nd Persistent cohomology barcodes and 2nd Stiefel-Whitney class of type 4

$CP^2 \# \overline{CP}^2$



$S^2 \times S^2$

