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Another Hecke
operator:

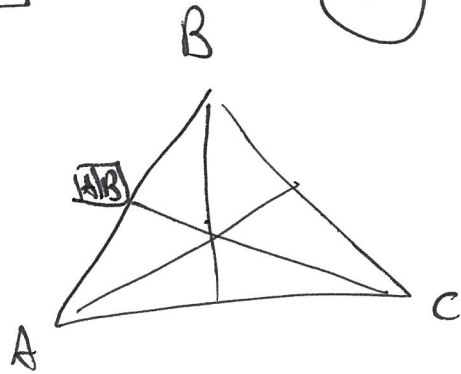


has row-weight 2.
purify the contamination
coker($\square \rightarrow \square$)
has dim 2.

Idea: take oriented
volume form on whole
linear subspace corresponding
to an equivalence relation.
Oriented volume form
is top exterior power.
Geometrically motivated
signed permutation
representation. These are
induced reps for
a 1-dim sign rep.

Linear subspaces
correspond to kernels
of the simplicial
degeneracy maps:
these are equivalence
relations.

Homework:
do a 3d version
of this.



different combings
correspond to pieces
of linear subspaces

Get perm reps by
numerically labelling
features:

\square 1 : 3 dim

\square 1 1 1 6 dim

\square 3 dim

\square 3 dim

These are
isomorphic
via a
Hecke operator
(geometric
relationship)