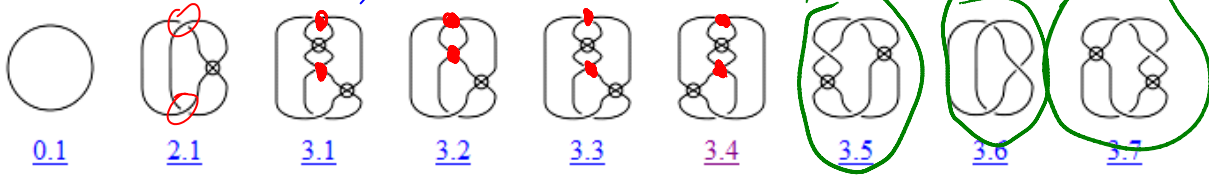


Odd Crossings in Virtuals

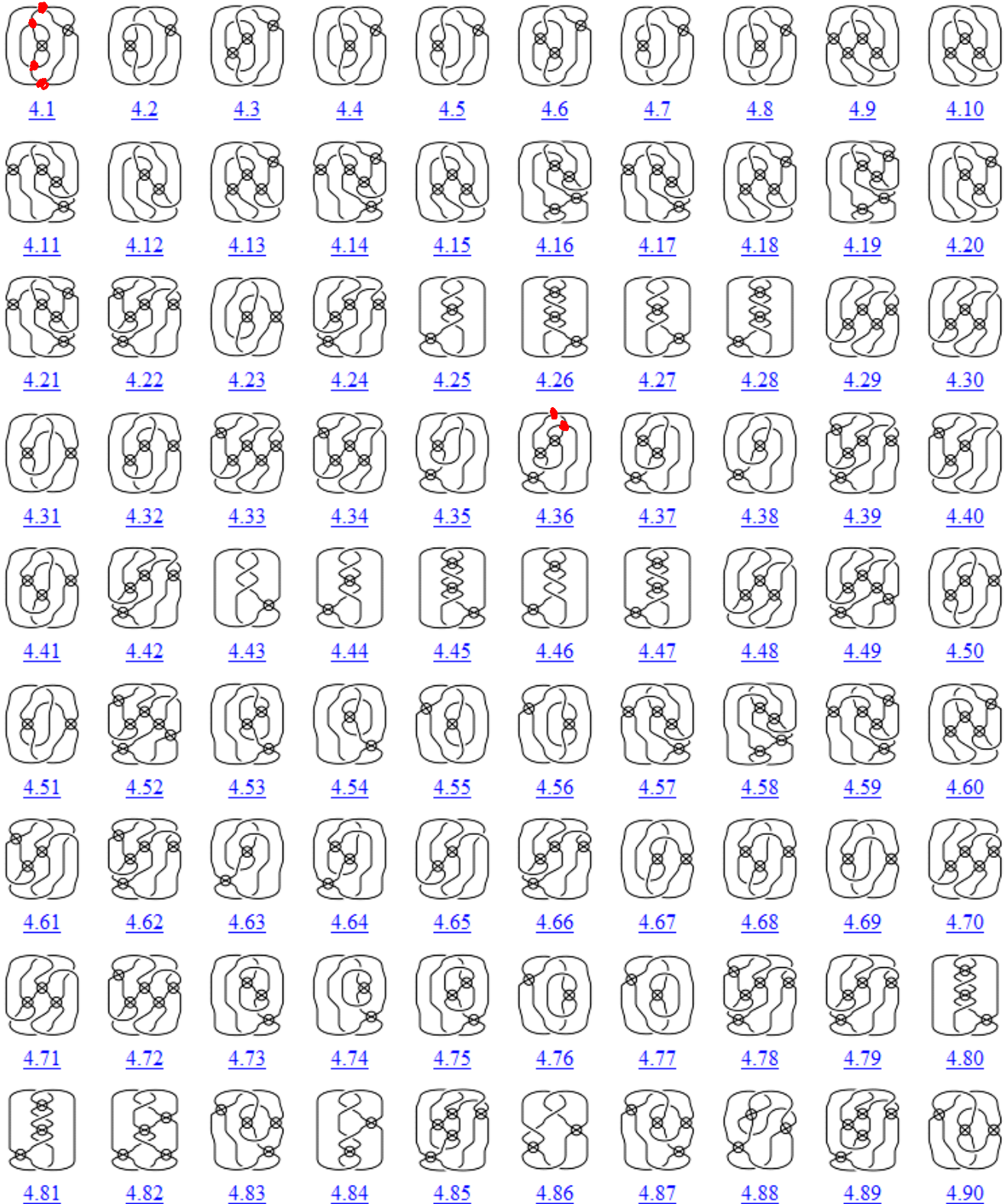
August-06-10
2:36 PM

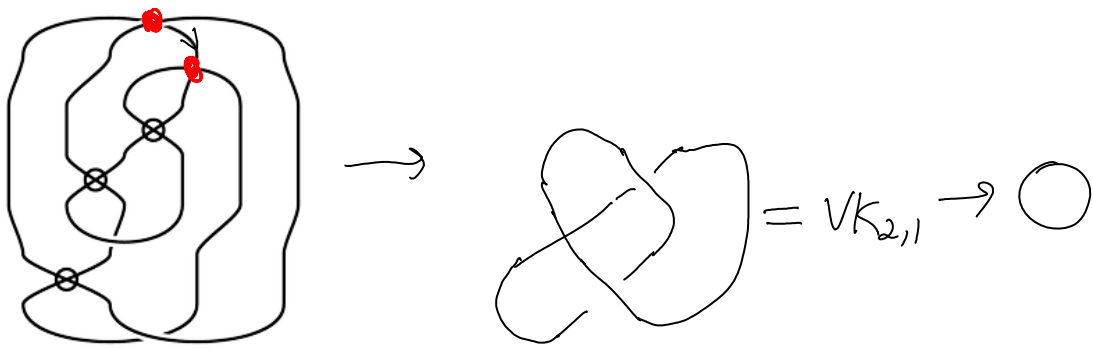
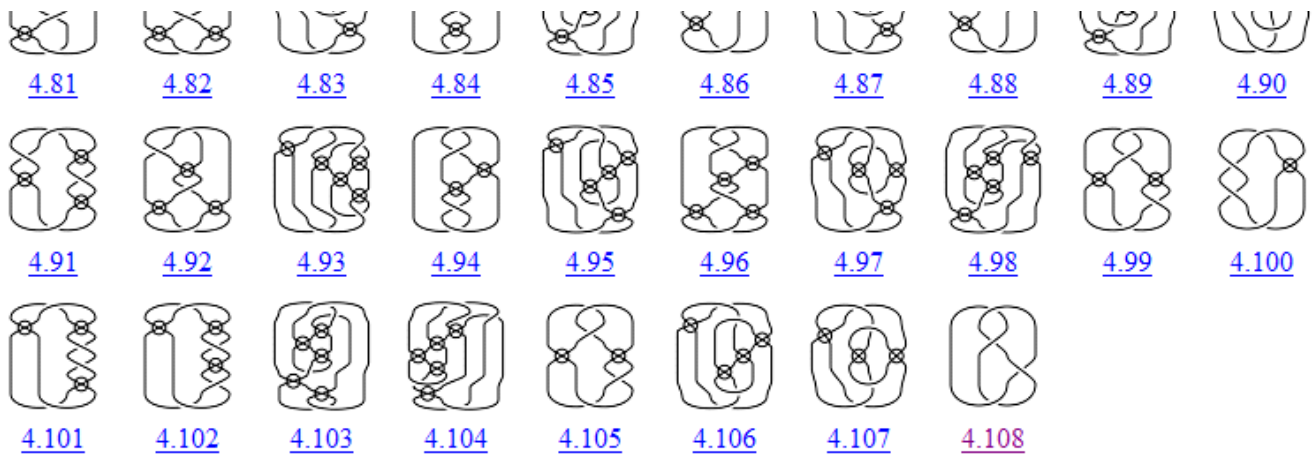
all even

Virtual knots with up to 3 crossings

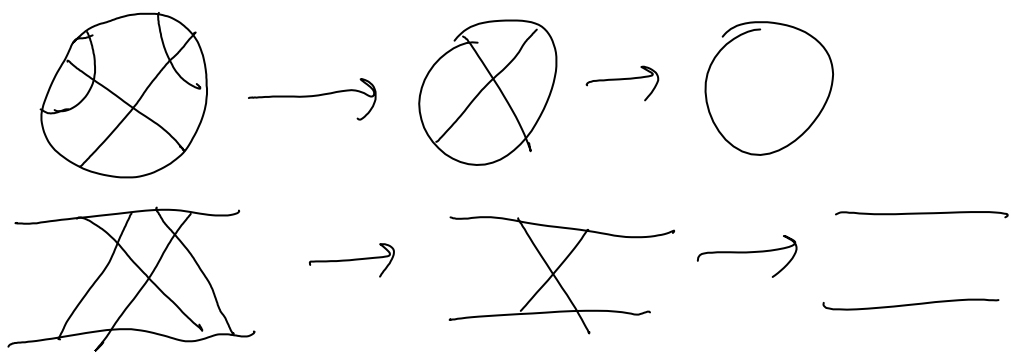


Virtual knots with 4 crossings





Parity is defined for flat knots!



Question Does the parity projection respect the f.t. filtration?

$x_1 \mapsto x_1 x_2$	$00 \rightarrow +00$
	$01 \rightarrow -01$
$x_2 \mapsto x_2$	$10 \rightarrow -00$
	$11 \rightarrow +11$

$x_i \mapsto x_i (x_j + x_k) \quad \dots \rightarrow +00 \dots$

$$x_1 \mapsto x_1(x_2+x_3)$$

$$x_2 \mapsto x_2$$

$$x_3 \mapsto x_3$$

$$000 \rightarrow \cancel{+000}$$

$$001 \rightarrow -001$$

$$010 \rightarrow -010$$

$$011 \rightarrow \cancel{+011}$$

$$100 \rightarrow \cancel{-000}$$

$$101 \rightarrow +101$$

$$110 \rightarrow +110$$

$$111 \rightarrow \cancel{-011}$$