Program Summary.	
During the last eight weeks. We	
learned about	developed Sage code that can
- Coxeter groups	
- Fally commutative (Fc) elements	test if an est 3 w. find the left/right desc. of FC elts
	* enumerate the Te ect in any Coxeter gp by length
- heaps of Fc ells	- Create heap posets and draw their Hasse diagrams nicely.

- generalized star operations;	- Compute Star operation, and their orbits
Star-irreducible elts	find KL cells quikly via star
	operation orbits of star-irr elts
- Herke algebras.	-* compute things in the Hecke
+ more generally: groups and algebras	algebra using the KL 6 asis
given by presentations, using their universal properties	gurdely via Coxeter 3 (faster
	than current naive nethods in
	Sage)
- (< L cells	- Compute Kl cells gurkely, especally for some FC cells.

- Temperlay-leb (TL) algebras - * Compute with draw TL diagrams in types A,B, H under the of arbitrary types framework of dewrated diagram algebras / deurated tangles. - Compute the canonical bons ent/diagran - canonical/diagram bases of TL in TL(Bn)/TL(Hn) for each Ic est. algebras of types B and H. - ** Compute the ML involutions in type B - The Mathas-Luzting (ML) involutions and display their effects disgrammatically for forte loxeter gps.

We will submit our code on the Sage development stream. We hope the Code lubelled by * (FC enumeration, KL boss/cell Computation in Hecke algebras, generalized TL algebras, Mathas-Losztog involutions) will be of general interest. We have also been able to formulate some interesting conjectures about the ML involutions on FC ests in type B. Some of us plan to continue studying the involutions elsewhere.

THANK You!