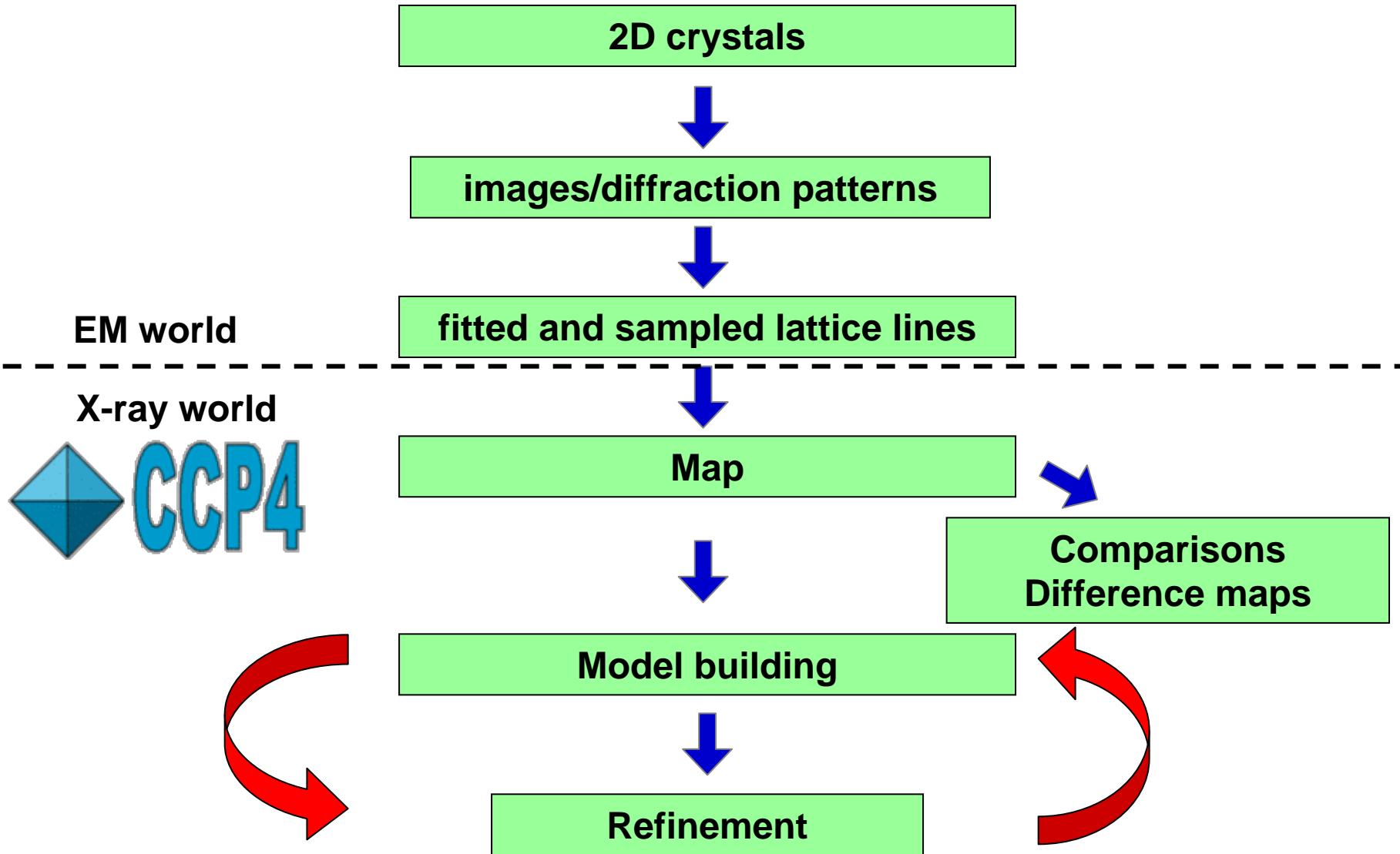
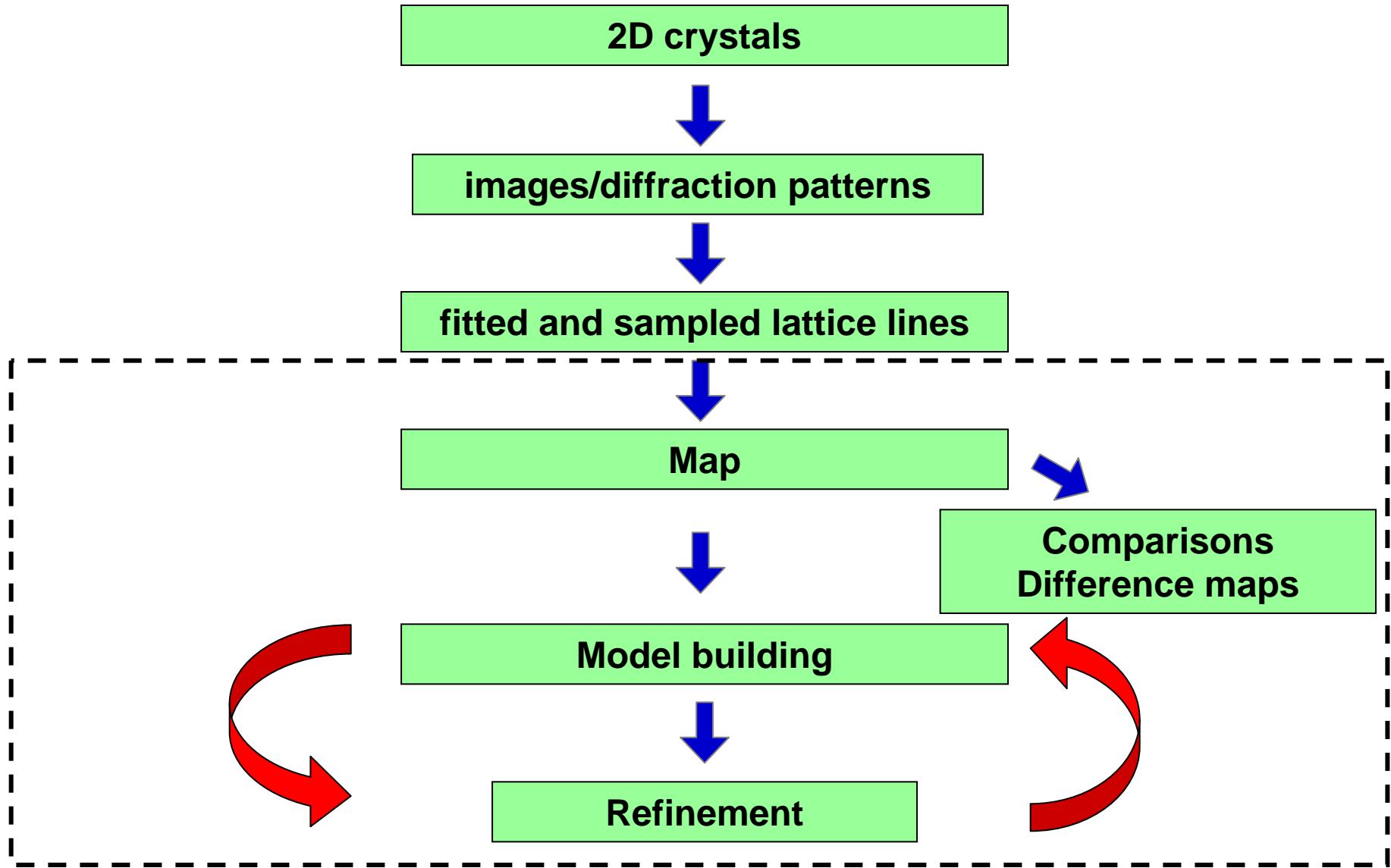
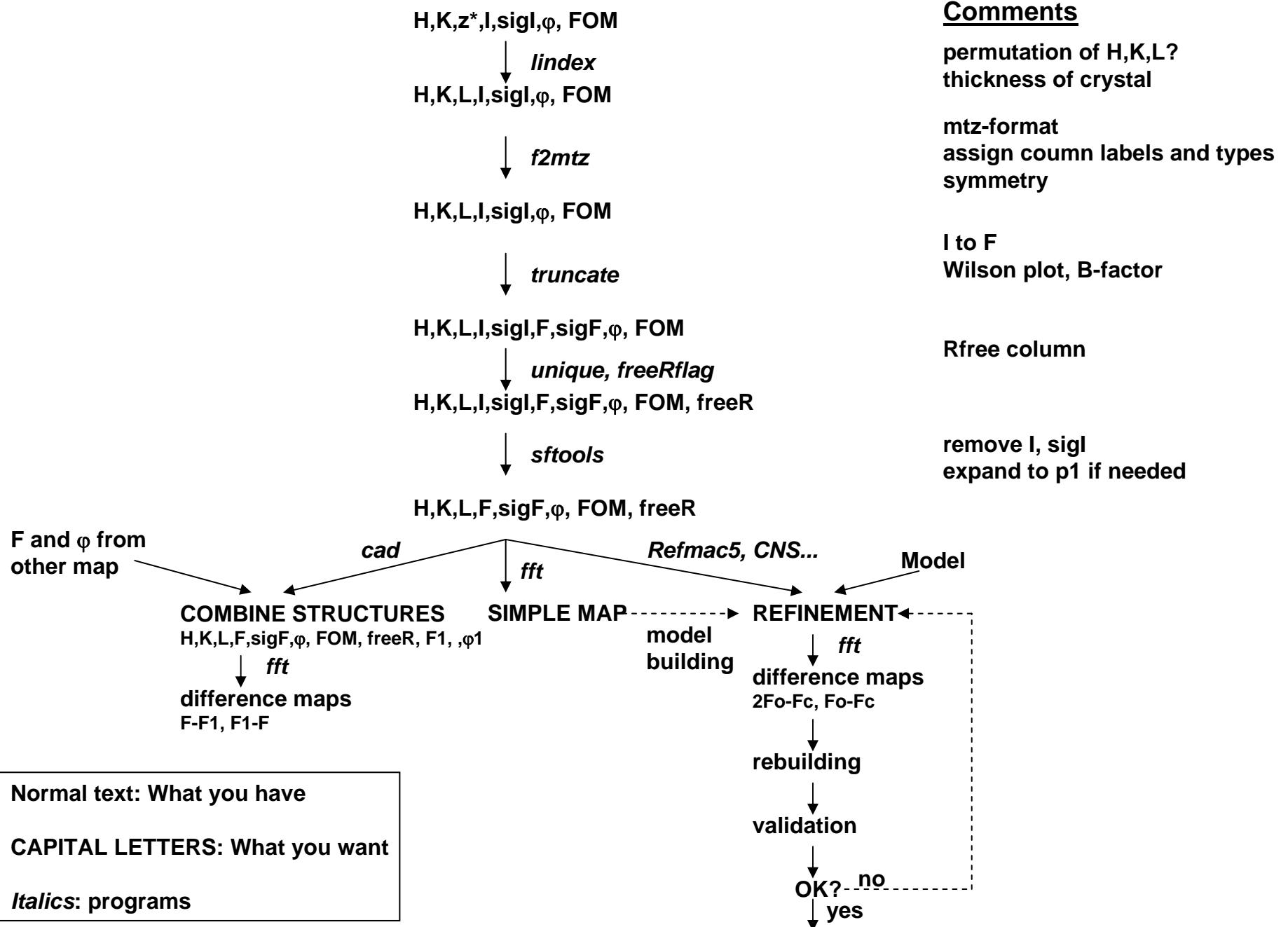


2D crystal structure determination



2D crystal structure determination

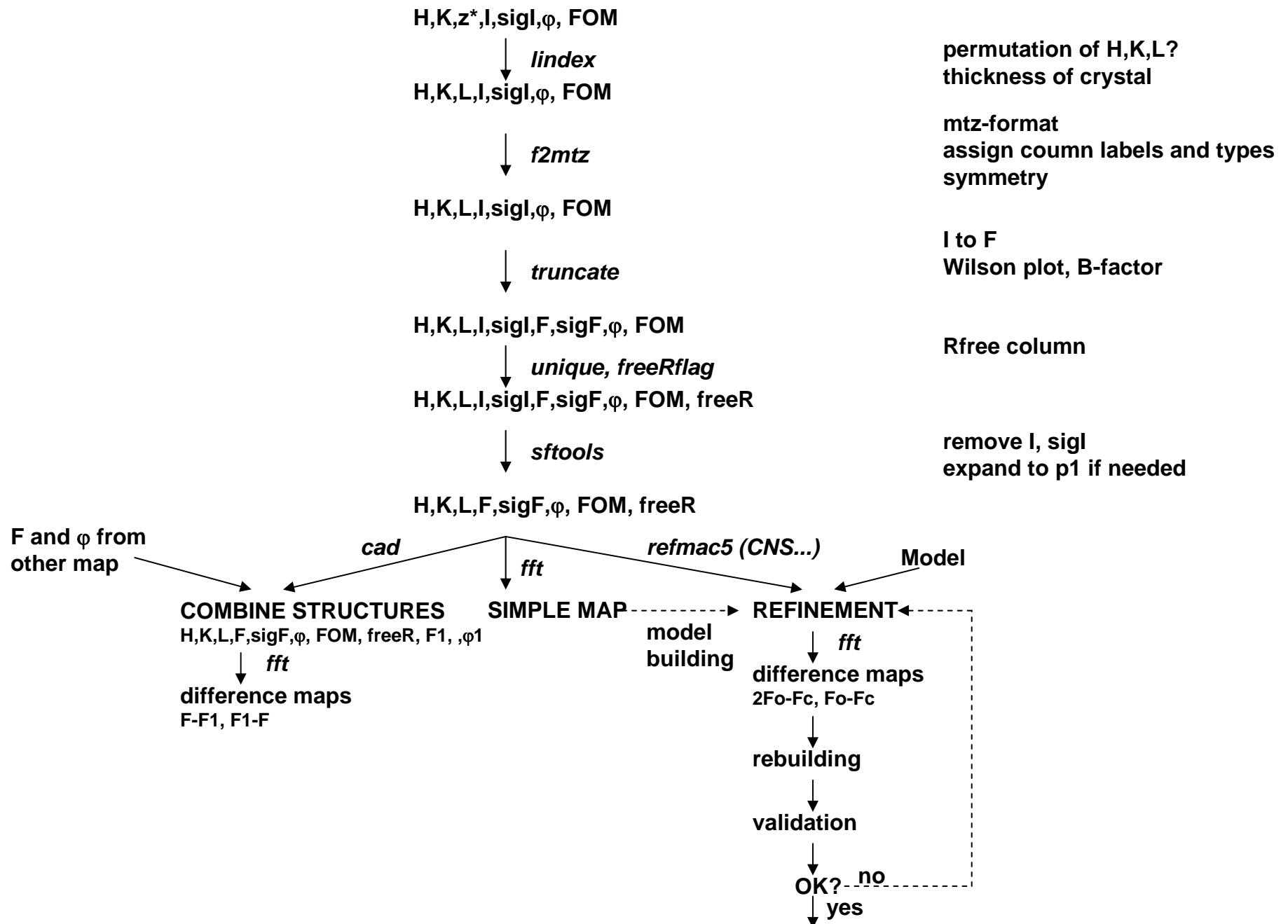




$H, K, z^*, I, \text{sig}I, \phi, \text{FOM}$
↓
Index
 $H, K, L, I, \text{sig}I, \phi, \text{FOM}$

AXIS <fast> <medium> <slow>

- <fast> <medium> <slow> are the letters X, Y and Z in the appropriate order. Note that many of the FFT space-group specific routines have FIXED axis orders. In general these are Y,X,Z for those which have rotation axes along c, and are best output with z-sections (all space-groups with space-group number greater than 18 (P21212)).
- For P1, the monoclinic space-groups, and space-groups 16 (P 2 2 2), 17 (P 2 2 21) and 18 (P 21 21 2), the required axis order is Z,X,Y, which gives y-sections.





f2mtz - Convert a formatted reflection file to MTZ format

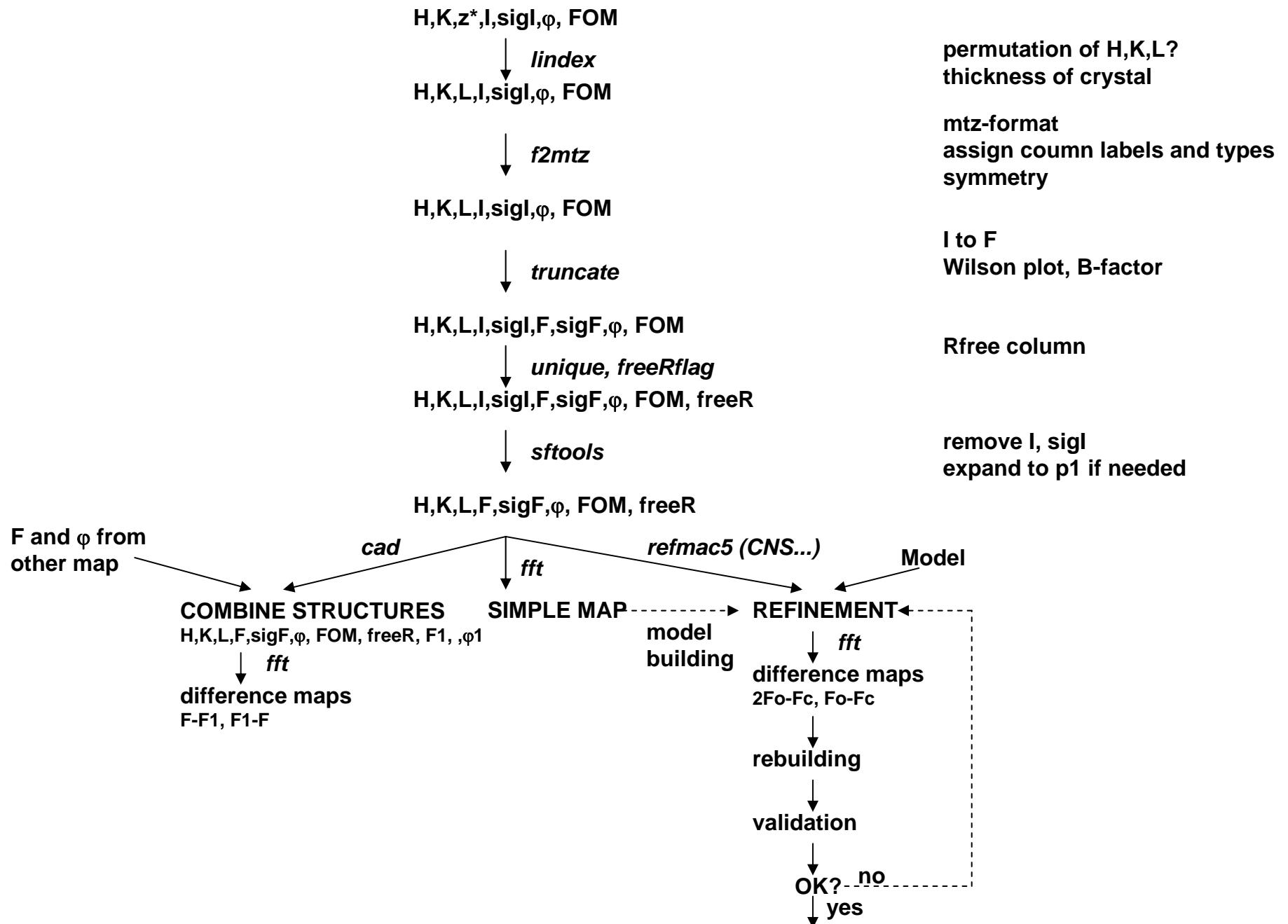
LABOUT

In the specification of the MTZ format, each data column has an associated label and type. The LABOUT command allows you to specify the column labels.

The standard label names used are as follows:

The standard label names used

<u>Name</u>	<u>Item</u>	<u>Name</u>	<u>Item</u>
H, K, L	Miller indices.	DP	Anomalous difference for native data.
S	(4 sin**2 theta / lambda**2).	DPHn	Anomalous difference for derivative `n'.
IC	Centric flag.	SIGFP	sigma(FP).
M/ISYM	Partial flag and symmetry number.	SIGDP	sigma(DP).
BATCH	Batch number.	SIGFPHn	sigma(Fn).
I	Intensity.	SIGDPHn	sigma(DELn).
I'	Selected mean intensity.	PHIC	Calc Phase.
SIGI	sigma(I).	PHIM	Most prob phase.
SIGI'	sigma(I').	PHIB	Phase.
FRACTIONCALC	Calculated partial fraction.	FOM	figure of merit.
IMEAN	mean intensity.	WT	weight
SIGIMEAN	sigma(IMEAN).	HLA	ABCD H/L coeffs
RATDELSD	Agreement factor between films in a pack.	HLB	
FP	Native 'F' value.	HLC	
FC	Calculated 'F'.	HLD	
FPHn	`F' value for derivative `n'.		



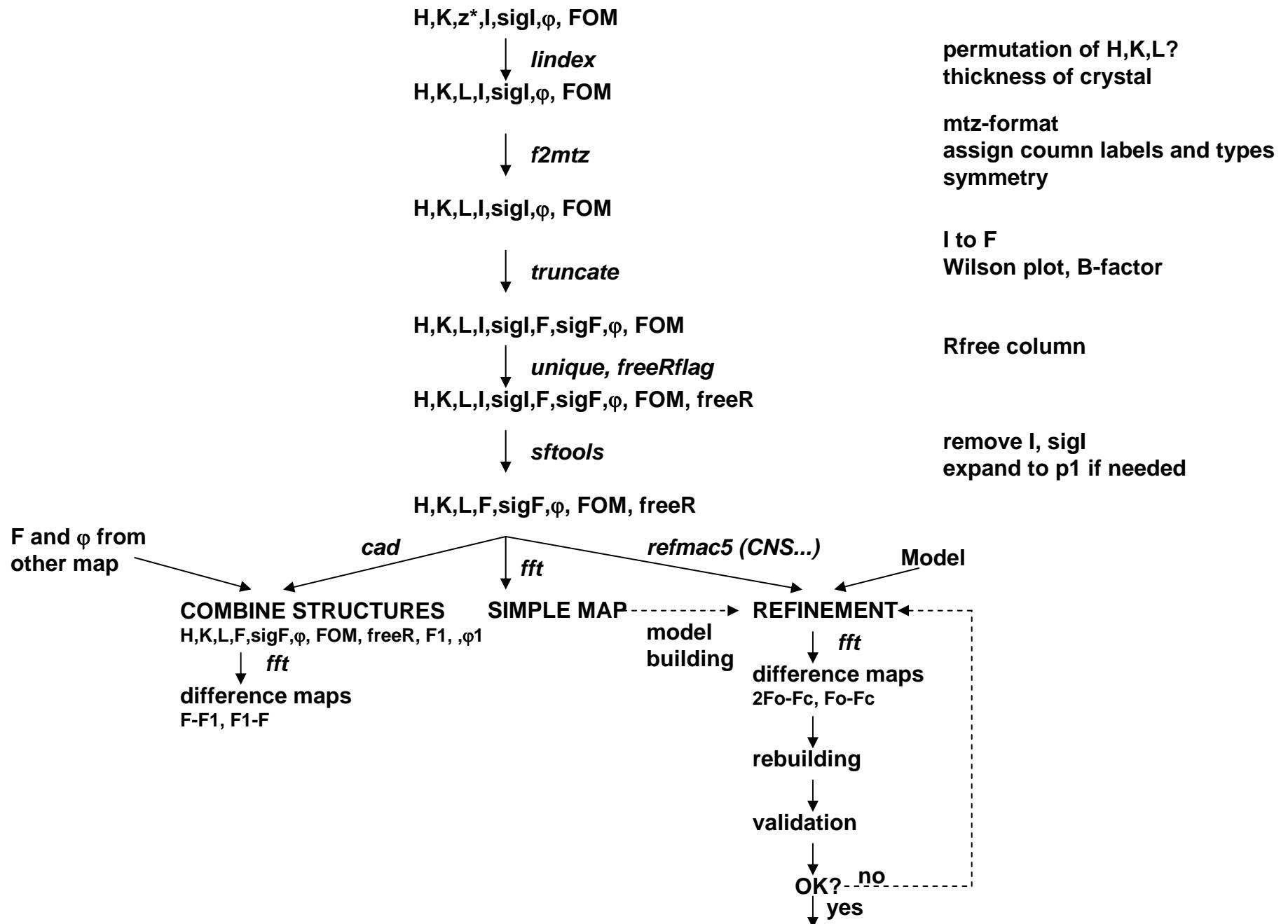
H,K,L,I,sigI, ϕ , FOM

↓ *truncate*

H,K,L,I,sigI,F,sigF, ϕ , FOM

truncate - obtain structure factor amplitudes using truncate procedure and/or generate useful intensity statistics

I → F, Wilson plot, overall B-factor

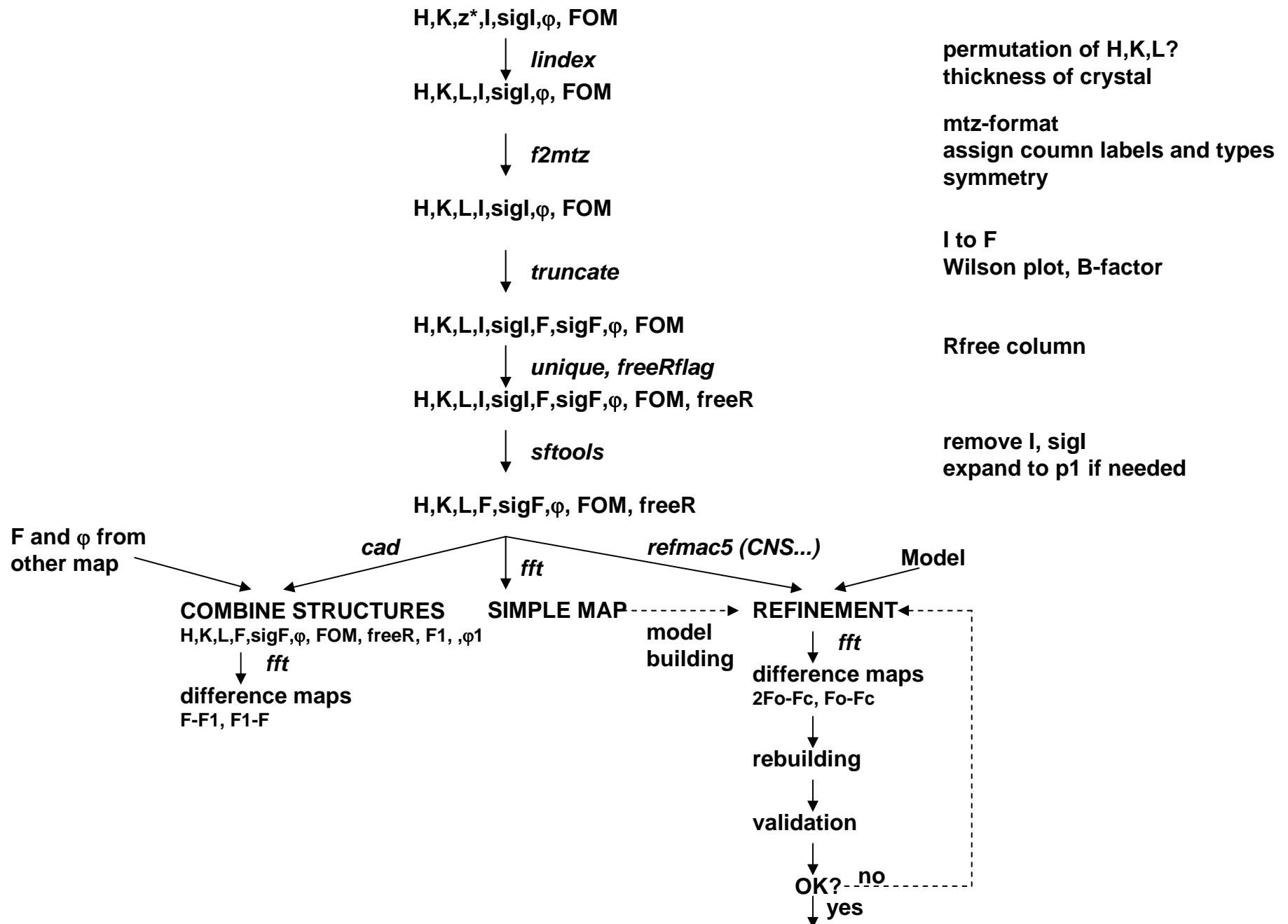


H,K,L,I,sigI,F,sigF, ϕ , FOM
↓
unique, freeRflag
H,K,L,I,sigI,F,sigF, ϕ , FOM, freeR

unique - Generate a unique list of reflections

freerflag - tags each reflection in an MTZ file with a flag for cross-validation

Rfree column added



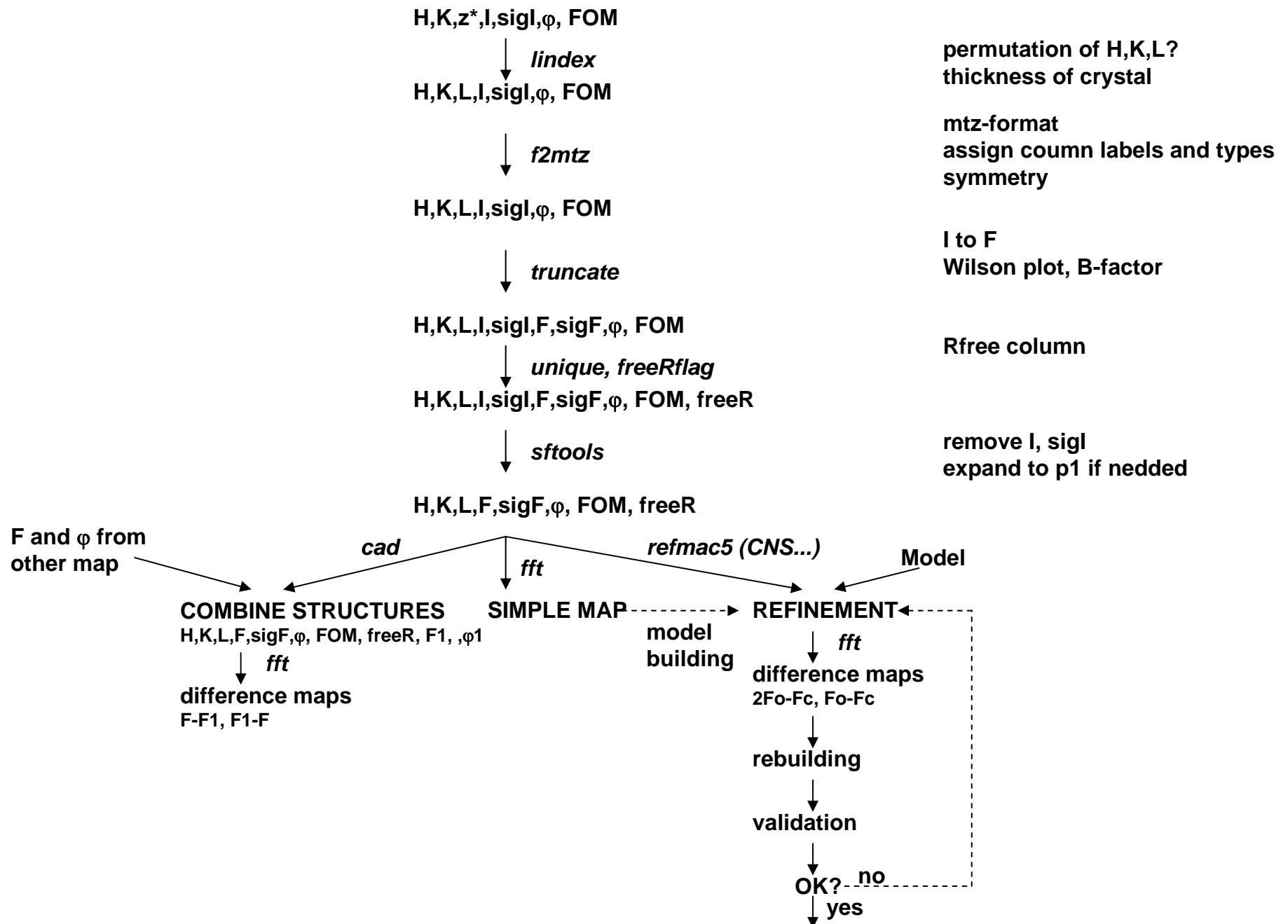
H,K,L,I,sigI,F,sigF, ϕ , FOM, freeR

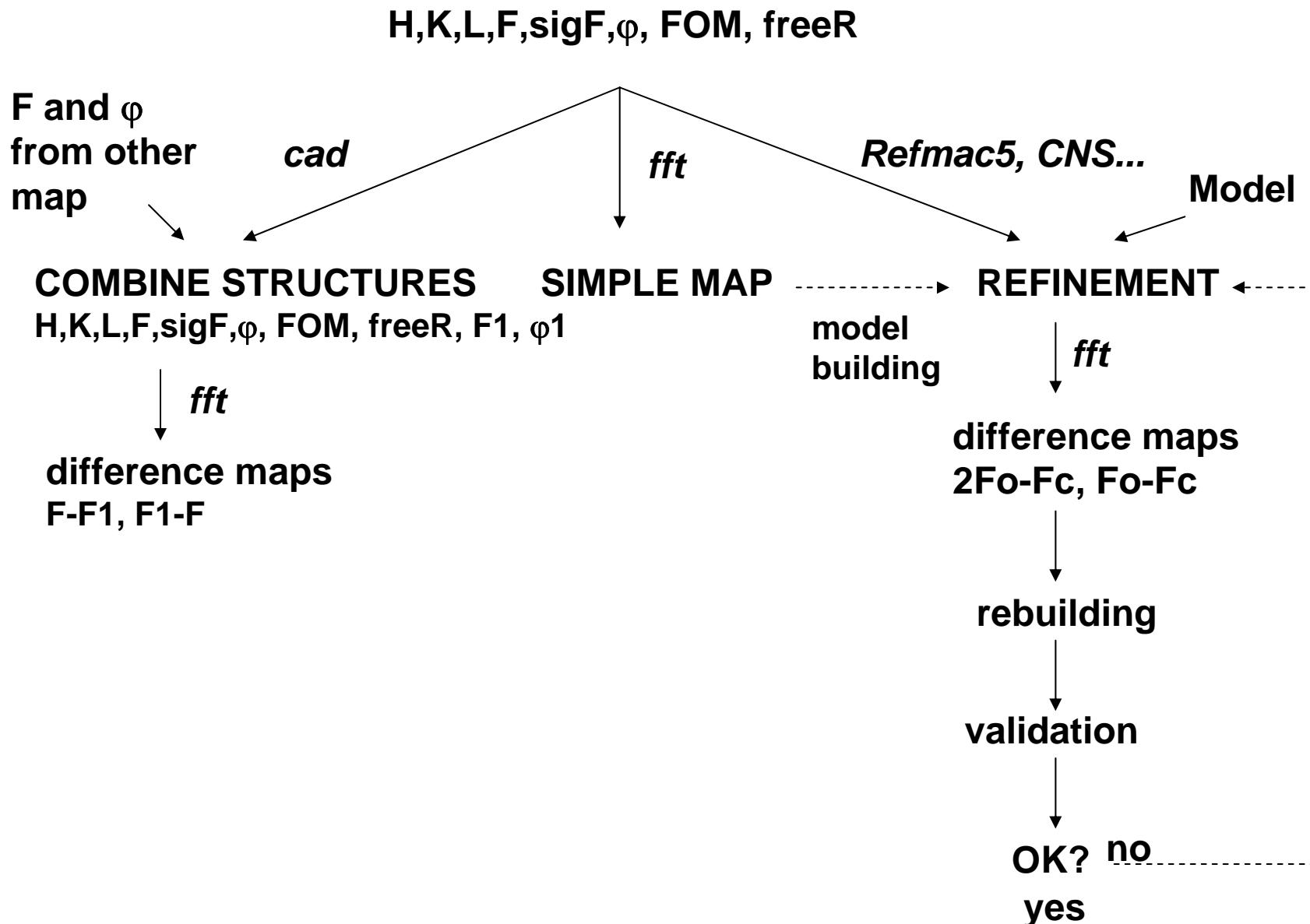
↓ *sftools*

H,K,L,F,sigF, ϕ , FOM, freeR

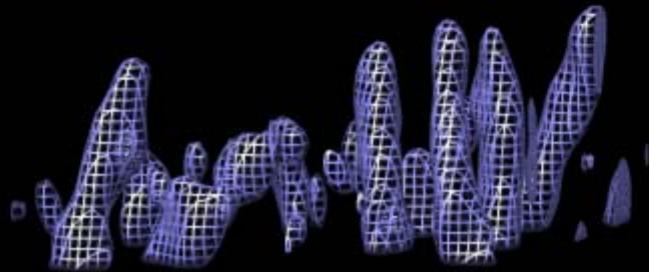
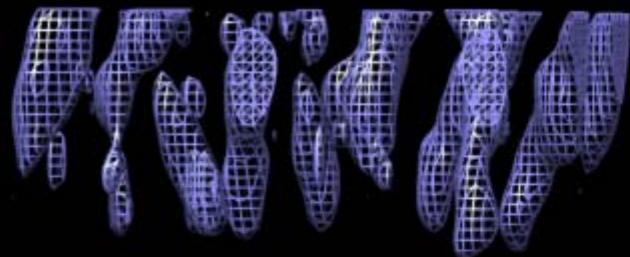
sftools - reflection data file utility program

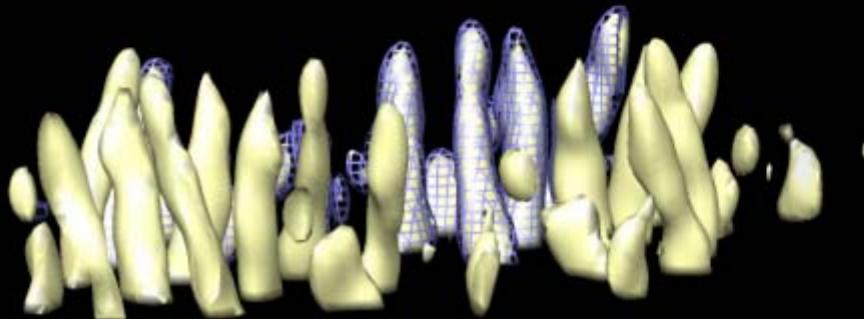
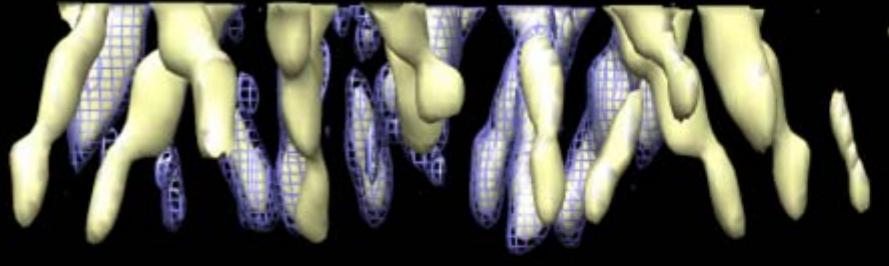
remove I, sigI
expand to p1 if needed

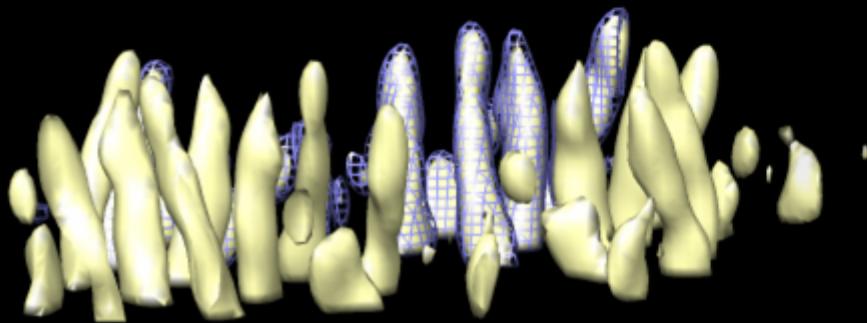
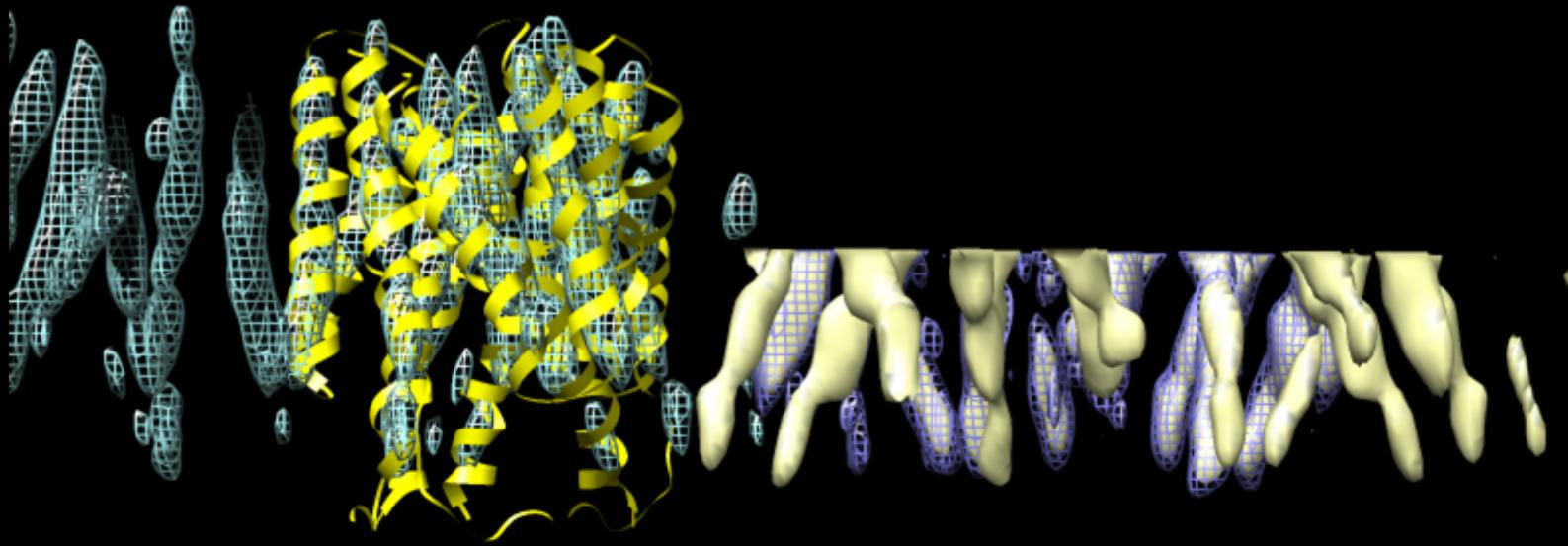


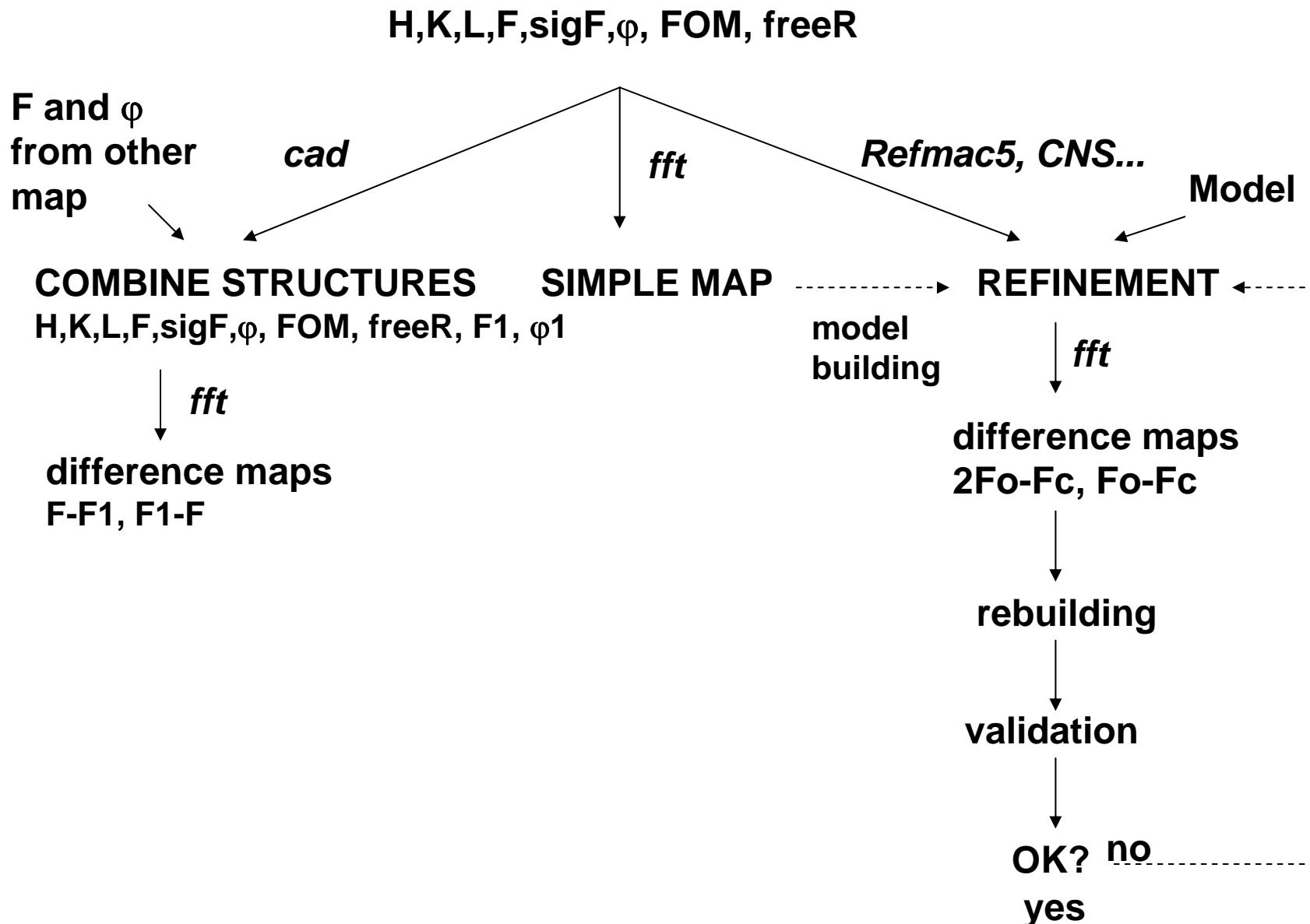












Map to model/map to map comparisons

