

Proposal for XFEL Naming

Winni Decking

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The unambiguous name of an element will probably be the serial-number given by the manufacturer.

Here we discuss the names as used in the lattice decks, control system etc.

For magnets the control system usually only needs the power supply

Requirements:

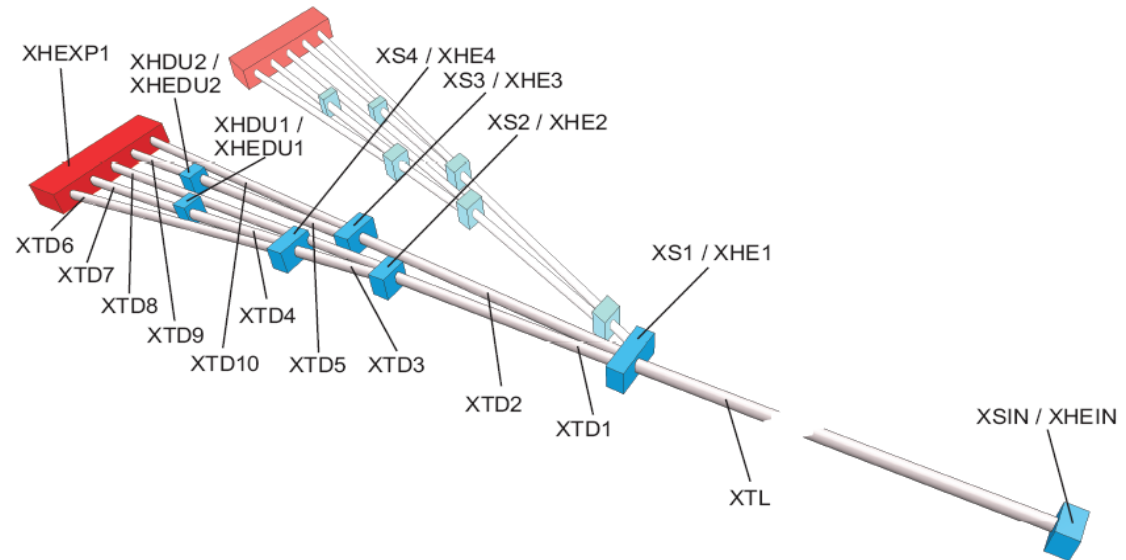
- Unique
- Short and easy to read/remember
- Should carry information on:
 - what kind of element
 - in which context is the element used
 - position of the element in the facility



- HERA:
 - TypeClassPositionSection : QK107WL
 - SectionPositionTypeClass : NR64CV
- FLASH:
 - TypePositionSection : H12SEED

- Divide into not too small sections
- For lattice development the position information is not available/irrelevant

Sektion		Building
I1	Injector 1	XTIN
I1D	Injector 1_Dump	XTIN
I2	Injector 2	XTIN
I2D	Injector 2 Dump	XTIN
L1	Linac 1	XTL
B1	Compressor 1	XTL
B1D	Compressor 1 Dump	XTL
L2	Linac 2	XTL
B2	Compressor 2	XTL
B2D	Compressor 2 Dump	XTL
L3	Main Linac	XTL
CL	Collimation	XTL
S1	Distribution 1	XTL
S1D	Dump 0	XTL/XS1
T11	Tunnel TD1	XTL/XS1/XTD1
T3	Tunnel TD20	XTL/XS1/XTD20
T21	Tunnel TD2	XTL/XS1/XTD2
SA1	SASE 1	XTD2
T23	Distribution 3	XTD2/XS3
SA3	SASE 3	XTD5
T2D	Dump 2	XTD5/XHDU2
SA2	SASE 2	XTD1
T13	Distribution 2	XTD1/XS2
UN1	Und 1	XTD3
T15	Distribution 4	XTD3/XS4
UN2	Und 2	XTD4
T1D	Dump 1	XTD4/XHDU1



Possible Names

TypClass.Position.Section	QA.1760.CL
TypClass.Section.Circuit	QA.2.CL
TypClass.Circuit.Circuitcount.Section	QA.2.1.CL
Section.Position.TypClass.Circuit.Circuitcount	CL.1760.QA.2.1
Section.TypClass.Circuit	CL.QA.2

#5 presently realized in MAD Deck,
will be supplemented with the
circuitcount for the lattice list

Will be changed to #2 in the longlist

Later we might use #1

Note: #1 and #2 in this order would
also work without delimiters

Pos [m]	Typ		Class	Circuit	Number in Circuit
99	B	Bend	A	1	1
1024	Q	Quad	B	2	2
3150	C	Corrector	C	3	3
	S	Sextupole	D	4	4
	O	Octupole	E	5	
	SOL	Solenoid	F	6	
	ACC	Module			
	CAV	Cavity			
	CEL	Cavitycell			
	BP	BPM			
	WR	Wire			
	SCR	Screen			
	OTR	OTR			
	CT	Current Transformer			
	PP	Pepperpot			
	VV	Vacuumvalve			
	COL	Collimator			
	VC	Vacuumcross			
	UND	Undulator			
	PS	PhaseShifter			