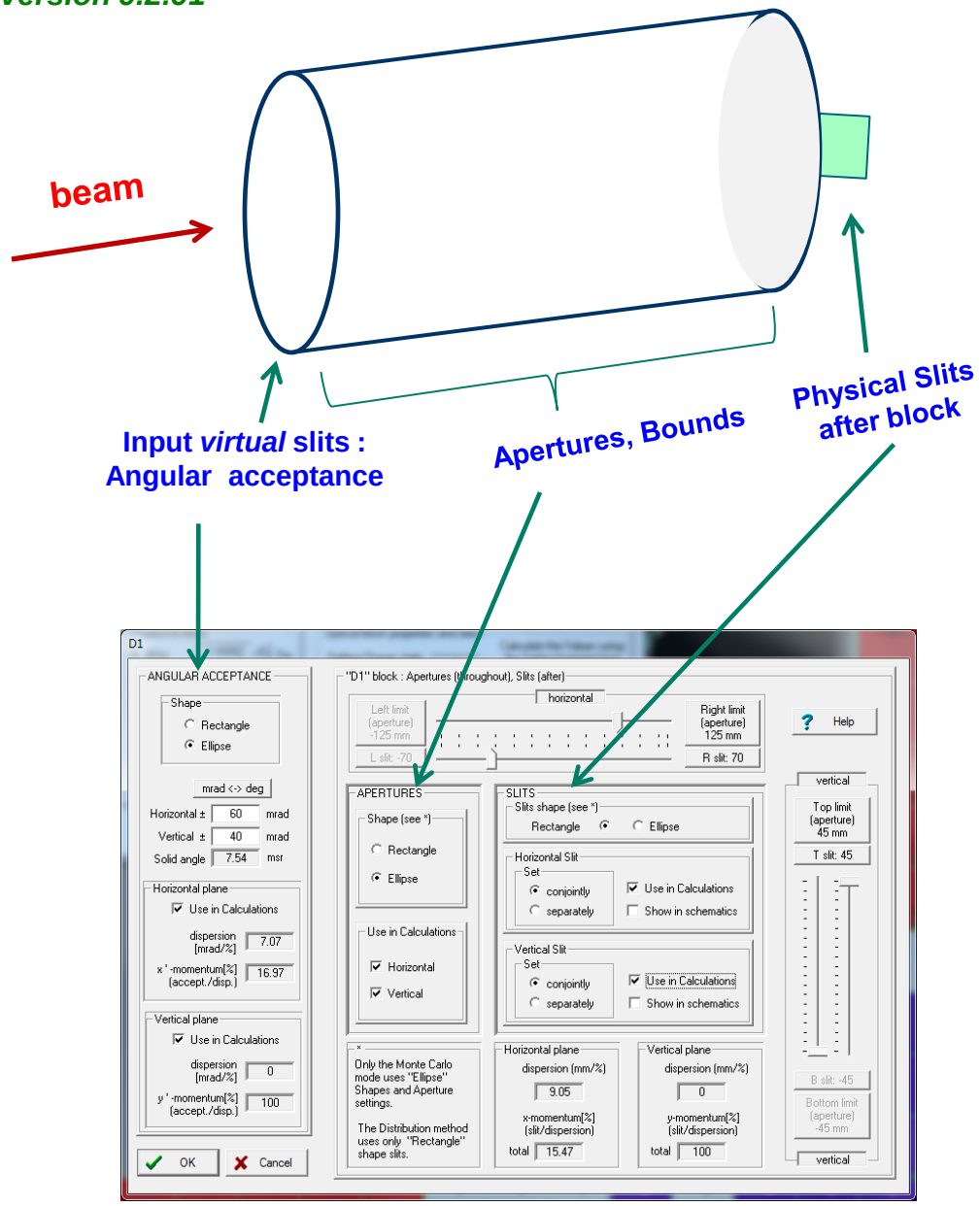
SLITS in LISE++

version 9.2.91

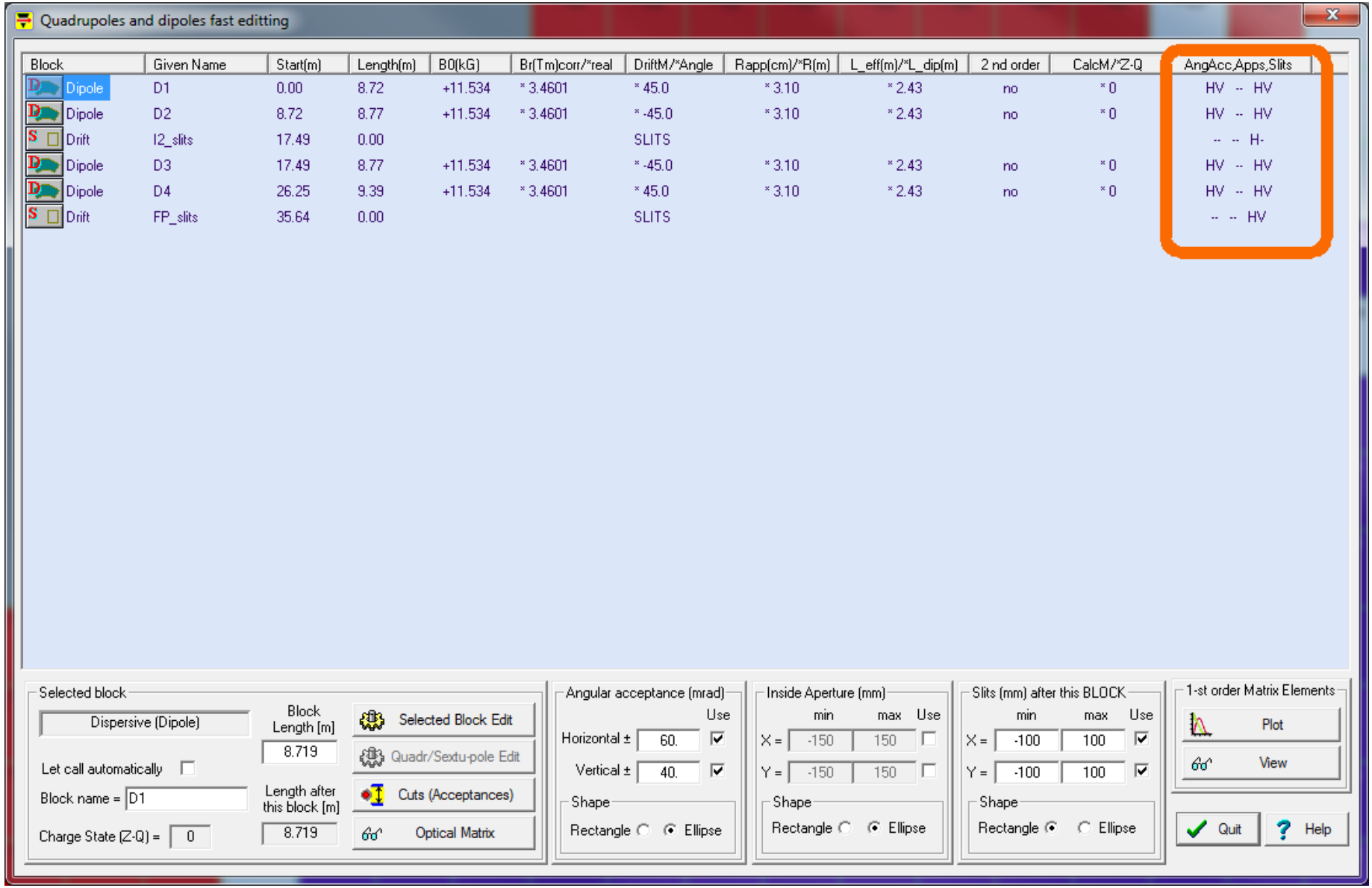


- **Classical configuration: dispersive block contains quads, drifts, dipole and so on**
- **Extended configuration: like in TRANSPORT all elements are separated, and their matrices can be calculated inside LISE+**

Configuration	Angular Acceptance	Apperture	Slits after block
Classical ("segment")	Yes	No	Yes
Extended ("element")	No	Yes*	please use only for "slits" element

** - Apertures are used only in Monte Carlo calculations*

A1900 “Classical” configuration



A1900 “Extended” configuration

Quads & Dipoles settings

! FILE: C:\user\c\lise_pp_92\files\A1900\A1900_extended_2011_v3_temporary.lpp

1 N or	2 Block name	3 Kind of Block	4 Start (m)	5 Length (m)	6 DriftMode Angle(°)*	7 B0(kG)	8 Br-corrsp Br-dip*	9 Rapp(cm) R(m)*	10 L_eff(m) Len(m)*	11 2nd order	12 Calc Mode	13 AngAcc mode	14 Slits shape	15 Xmin slit	16 Xmax slit	17 Ymin slit	18 Ymax slit	19 Appert shape	20 Xmin limit	21 Xmax limit	22 Ymin limit	23 Ymax limit
1.	dr L1A (016)	Drift	0.000	0.396	standard							--	rectn					ellps	-100	+100	-100	+100
2.	QL1TA-017	Drift	0.396	0.748	quadrupole	+9.333	3.0000	13.30	0.75	yes	1	--	rectn					ellps	-100	+100	-100	+100
3.	dr L1AB	Drift	1.144	0.176	standard							--	rectn					ellps	-100	+100	-100	+100
4.	QL1TB-019	Drift	1.320	0.748	quadrupole	-8.674	3.0000	13.30	0.75	yes	1	--	rectn					ellps	-100	+100	-100	+100
5.	dr L1BC	Drift	2.068	0.172	standard							--	rectn					ellps	-100	+100	-100	+100
6.	QL1TC-021	Drift	2.240	0.430	quadrupole	+6.240	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
7.	dr L1C	Drift	2.670	0.526	standard							--	ellps	-100	+100	-100	+100	ellps	-100	+100	-100	+100
8.	D1	Dipole	3.196	2.430	+45.0 *	+10.000	3.0000*	3.09*	2.43*	yes		--	rectn	-120	+120	-45	+45	ellps	-125	+125	-45	+45
9.	dr R1A (026)	Drift	5.626	0.564	standard							--	rectn					ellps	-100	+100	-100	+100
10.	QR1TA-031	Drift	6.190	0.430	quadrupole	+6.897	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
11.	dr R1AB	Drift	6.620	0.136	standard							--	rectn					ellps	-100	+100	-100	+100
12.	QR1TB-033	Drift	6.755	0.812	quadrupole	-8.508	3.0000	15.00	0.81	yes	1	--	rectn					ellps	-100	+100	-100	+100
13.	dr R1BC	Drift	7.567	0.136	standard							--	rectn					ellps	-100	+100	-100	+100
14.	QR1TC-035	Drift	7.703	0.430	quadrupole	+7.476	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
15.	dr R1C	Drift	8.133	0.586	standard							--	rectn					ellps	-100	+100	-100	+100
16.	Image1(037)	Drift	8.719	0.000	SLITS							--	rectn	-100	+100	-100	+100	ellps				
17.	dr L2A (038)	Drift	8.719	0.586	standard							--	rectn					ellps	-100	+100	-100	+100
18.	QL2TA-039	Drift	9.305	0.430	quadrupole	+7.476	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
19.	dr L2AB	Drift	9.735	0.136	standard							--	rectn					ellps	-100	+100	-100	+100
20.	QL2TB-041	Drift	9.871	0.812	quadrupole	-8.397	3.0000	15.00	0.81	yes	1	--	rectn					ellps	-100	+100	-100	+100
21.	dr L2BC	Drift	10.683	0.136	standard							--	rectn					ellps	-100	+100	-100	+100
22.	QL2TC-043	Drift	10.819	0.430	quadrupole	+6.903	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
23.	dr L2C	Drift	11.249	0.563	standard							--	ellps	-100	+100	-100	+100	ellps	-100	+100	-100	+100
24.	D2	Dipole	11.812	2.430	-45.0 *	+10.000	3.0000*	3.09*	2.43*	yes		--	rectn	-120	+120	-45	+45	ellps	-125	+125	-45	+45
25.	dr R2A (047)	Drift	14.242	0.552	standard							--	rectn					ellps	-100	+100	-100	+100
26.	QR2TA-053	Drift	14.794	0.430	quadrupole	+6.442	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
27.	dr R2AB	Drift	15.224	0.170	standard							--	rectn					ellps	-100	+100	-100	+100
28.	QR2TB-055	Drift	15.394	0.732	quadrupole	-8.540	3.0000	15.00	0.73	yes	1	--	rectn					ellps	-115	+115	-115	+115
29.	dr R2BC	Drift	16.126	0.176	standard							--	rectn					ellps	-150	+150	-150	+150
30.	QR2TC-057	Drift	16.302	0.526	quadrupole	+7.750	3.0000	21.00	0.53	yes	1	--	rectn					ellps	-150	+150	-150	+150
31.	dr R2C	Drift	16.828	0.658	standard							--	rectn					ellps	-150	+150	-150	+150
32.	Image2(059)	Drift	17.486	0.000	SLITS							--	rectn	-150	+150	-150	+150	ellps				
33.	dr L3A (060)	Drift	17.486	0.658	standard							--	rectn					ellps	-150	+150	-150	+150
34.	QL3TA-062	Drift	18.143	0.526	quadrupole	+8.735	3.0000	21.00	0.53	yes	1	--	rectn					ellps	-150	+150	-150	+150
35.	dr L3AB	Drift	18.669	0.176	standard							--	rectn					ellps	-150	+150	-150	+150
36.	QL3TB-064	Drift	18.845	0.732	quadrupole	-9.573	3.0000	15.00	0.73	yes	1	--	rectn					ellps	-115	+115	-115	+115
37.	dr L3BC	Drift	19.577	0.170	standard							--	rectn					ellps	-100	+100	-100	+100
38.	QL3TC-066	Drift	19.747	0.430	quadrupole	+7.479	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
39.	dr L3C	Drift	20.177	0.553	standard							--	ellps	-100	+100	-100	+100	ellps	-100	+100	-100	+100
40.	D3	Dipole	20.730	2.430	-45.0 *	+10.000	3.0000*	3.09*	2.43*	yes		--	rectn	-120	+120	-45	+45	ellps	-125	+125	-45	+45
41.	dr R3A (070)	Drift	23.160	0.563	standard							--	rectn					ellps	-100	+100	-100	+100
42.	QR3TA-076	Drift	23.723	0.430	quadrupole	+7.728	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
43.	dr R3AB	Drift	24.153	0.136	standard							--	rectn					ellps	-100	+100	-100	+100
44.	QR3TB-078	Drift	24.289	0.812	quadrupole	-9.399	3.0000	15.00	0.81	yes	1	--	rectn					ellps	-100	+100	-100	+100
45.	dr R3BC	Drift	25.101	0.136	standard							--	rectn					ellps	-100	+100	-100	+100
46.	QR3TC-080	Drift	25.237	0.430	quadrupole	+8.379	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
47.	dr R3C	Drift	25.667	0.586	standard							--	rectn					ellps	-100	+100	-100	+100
48.	Image3(082)	Drift	26.253	0.000	SLITS							--	rectn	-100	+100	-100	+100	ellps				
49.	dr L4A (083)	Drift	26.253	0.586	standard							--	rectn					ellps	-100	+100	-100	+100
50.	QL4TA-084	Drift	26.839	0.430	quadrupole	+8.379	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
51.	dr L4AB	Drift	27.269	0.136	standard							--	rectn					ellps	-100	+100	-100	+100
52.	QL4TB-086	Drift	27.405	0.812	quadrupole	-9.536	3.0000	15.00	0.81	yes	1	--	rectn					ellps	-100	+100	-100	+100
53.	dr L4BC	Drift	28.217	0.136	standard							--	rectn					ellps	-100	+100	-100	+100
54.	QL4TC-086	Drift	28.353	0.430	quadrupole	+7.731	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
55.	dr L4C	Drift	28.783	0.564	standard							--	ellps	-100	+100	-100	+100	ellps	-100	+100	-100	+100
56.	D4	Dipole	29.347	2.430	+45.0 *	+10.000	3.0000*	3.09*	2.43*	yes		--	rectn	-120	+120	-45	+45	ellps	-125	+125	-45	+45
57.	dr R4A (097)	Drift	31.777	0.526	standard							--	rectn					ellps	-100	+100	-100	+100
58.	QR4TA-098	Drift	32.303	0.430	quadrupole	+5.895	3.0000	15.00	0.43	yes	1	--	rectn					ellps	-100	+100	-100	+100
59.	dr R4AB	Drift	32.733	0.172	standard							--	rectn					ellps	-100	+100	-100	+100
60.	QR4TB-100	Drift	32.905	0.748	quadrupole	-7.669	3.0000	13.30	0.75	yes	1	--	rectn					ellps	-100	+100	-100	+100
61.	dr R4BC	Drift	33.653	0.176	standard							--	rectn					ellps	-100	+100	-100	+100
62.	QR4TC-102	Drift	33.828	0.748	quadrupole	+5.524	3.0000	13.30	0.75	yes	1	--	rectn					ellps	-100	+100	-100	+100
63.	dr R4C	Drift	34.576	0.904	standard							--	rectn					ellps	-100	+100	-100	+100
64.	Image4(104)	Drift	35.480	0.000	SLITS							--	rectn	-150	+150	-150	+150	ellps				

! symbol "*" after values denotes, that these values belongs to Dipole settings, where column names are found in the second row of titles, and also marked by "*"
! Column 08: "Br-corrsp" - quadrupole(sextupole) field is scaled to this Brho-value; "Br-dip*" - dipole magnetic rigidity [T*m]
! Column 09: "Rapp(cm)" - radius(half-aperture) of quadrupole(sextupole) in cm; "R(m)-dip*" - dipole raidus [m]
! Column 10: "L_eff(m)" - effective length of quadrupole(sextupole) in m, wich is used for Optical matrix calcualtiuons; "Len(m)*" - dipole length at ther central axis [m]
! Column 12: "Calc mode" - only for quadrupole(sextupole); 0 - no actions; 1 - recalculate automatically B(field), keep matrix;
! 2 - recalculate automatically the matrix, keep B(field)
! Column 13: "AngAcc mode" - "H(V)" : horizontal(vertical) angular acceptance will be applied for this block
! Columns 15-18,20-23: slits and aperture(limit) sizes in [mm]. If slit or aperture(limit) does not have action, then its size value is absent