

DESIGN OF THE  $e^+$  AND  $e^-$  INJECTION BEAM TRANSFER  
LINES BETWEEN LIL AND EPA

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The beam optical computations presented in the above note have been done with a modified AGS program, including fringe field correction in bending magnets<sup>1)</sup>.

Due to a formatting error in the use of the program fringe field correction term was not taken into account as intended.

The error has been corrected with the following results :

- the trajectory stays the same, only quadrupole positions have slightly changed.
- the characteristic functions are practically the same. The quadrupole current settings and the newest AGS printout is annexed and should replace those shown in the note :

Quadrupole magnets

Calculations made for type "Terwilliger ISR" :

$B_0 = 2.0013843$ ;  $GL = 1.8$  T at  $I = 131A$ ;  $l_m = 0.38$  m;  $E = 600$  MeV.

Name*)	K [ $m^{-2}$ ]	G.l [T]	I [A]	Quantity
QFO 11	2.00861	1.52760	111.18	2
QDE 21	"	"	"	2
QFO 22	2.40079	1.82586	132.88	2
QDE 23	"	"	"	2
QFO 24	"	"	"	2
QDE 25	"	"	"	2
QFO 26	"	"	"	2

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