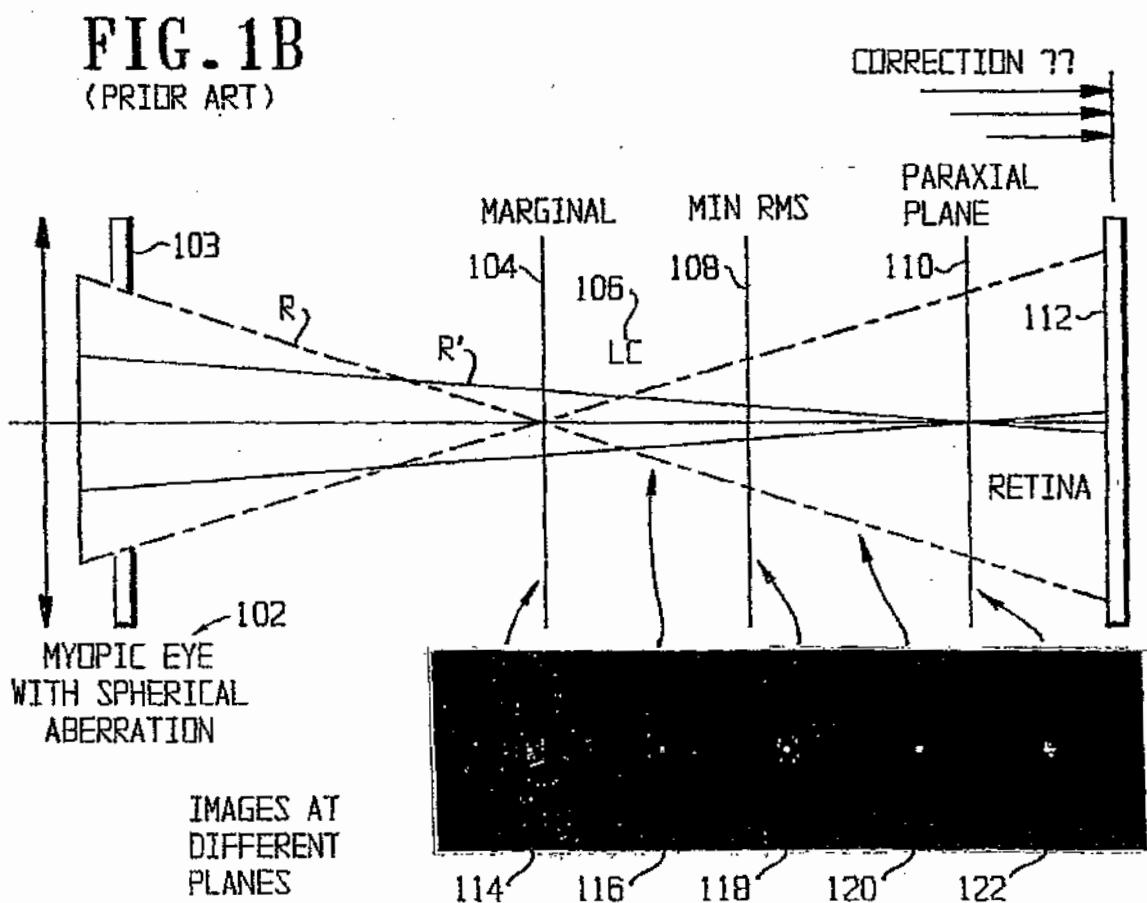
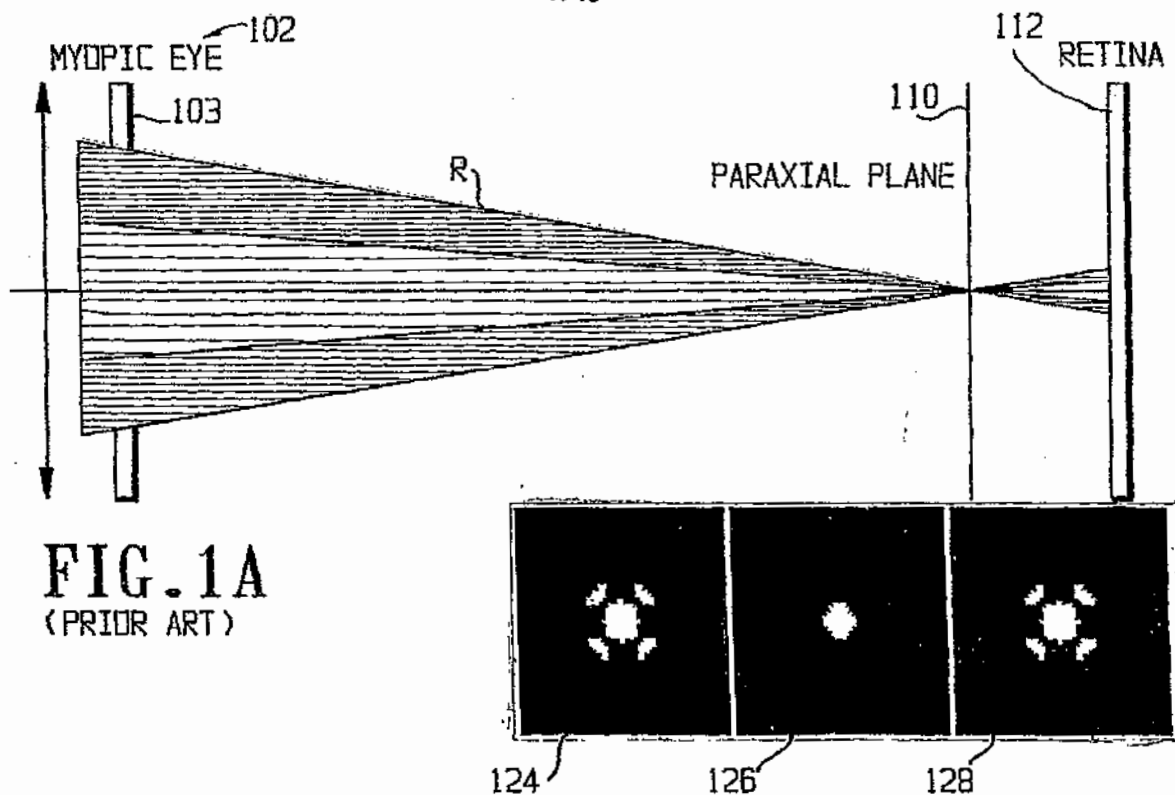


17/19



2/19

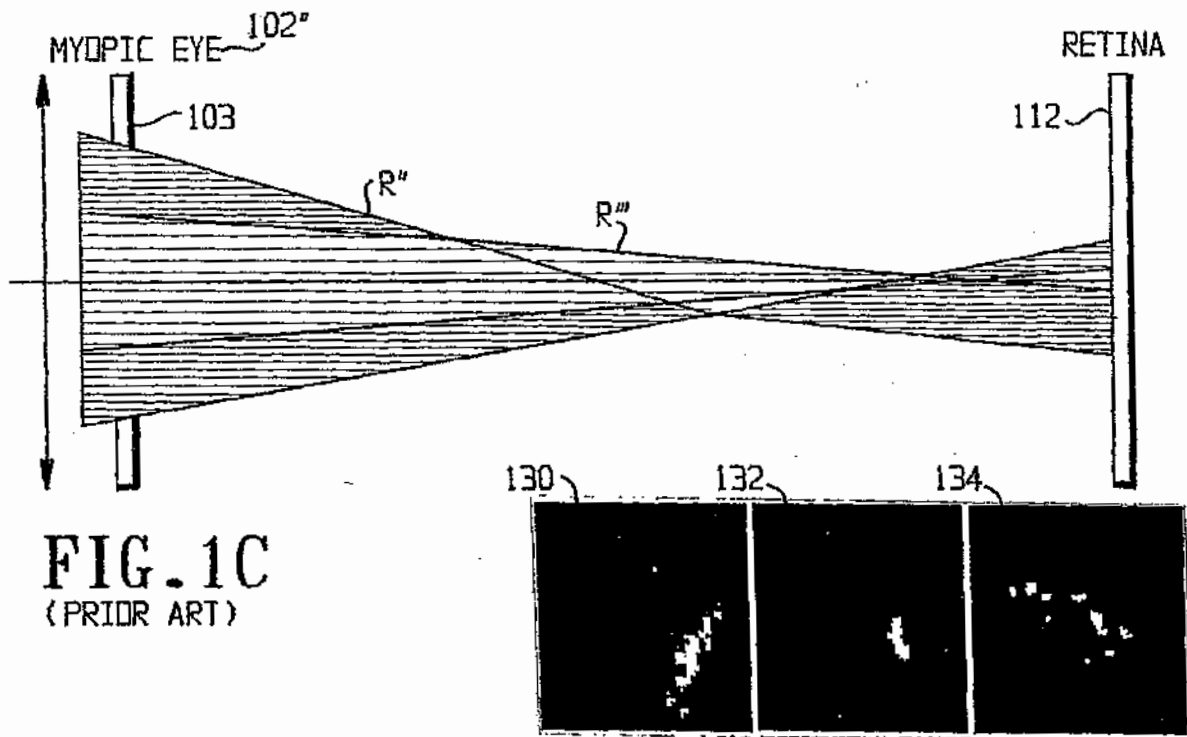
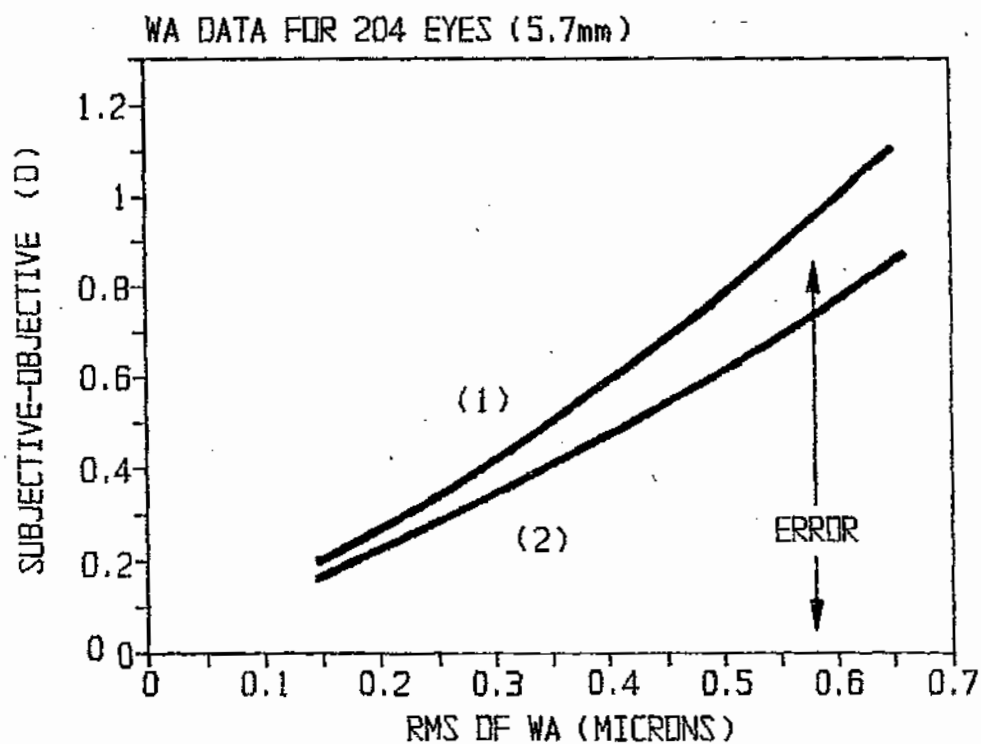


FIG. 1D REFRACTION FROM METHODS (1) AND (2) FAIL WHEN HIGHER-ORDER ABERRATIONS INCREASE
(PRIOR ART)



3/19

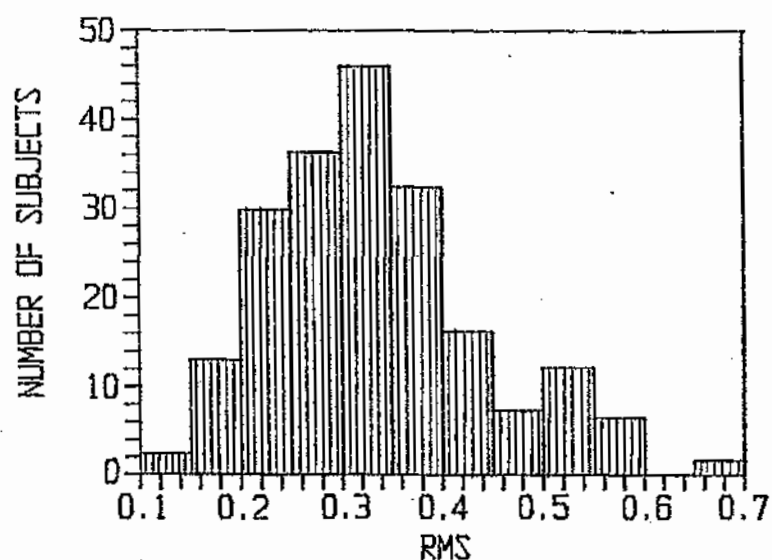
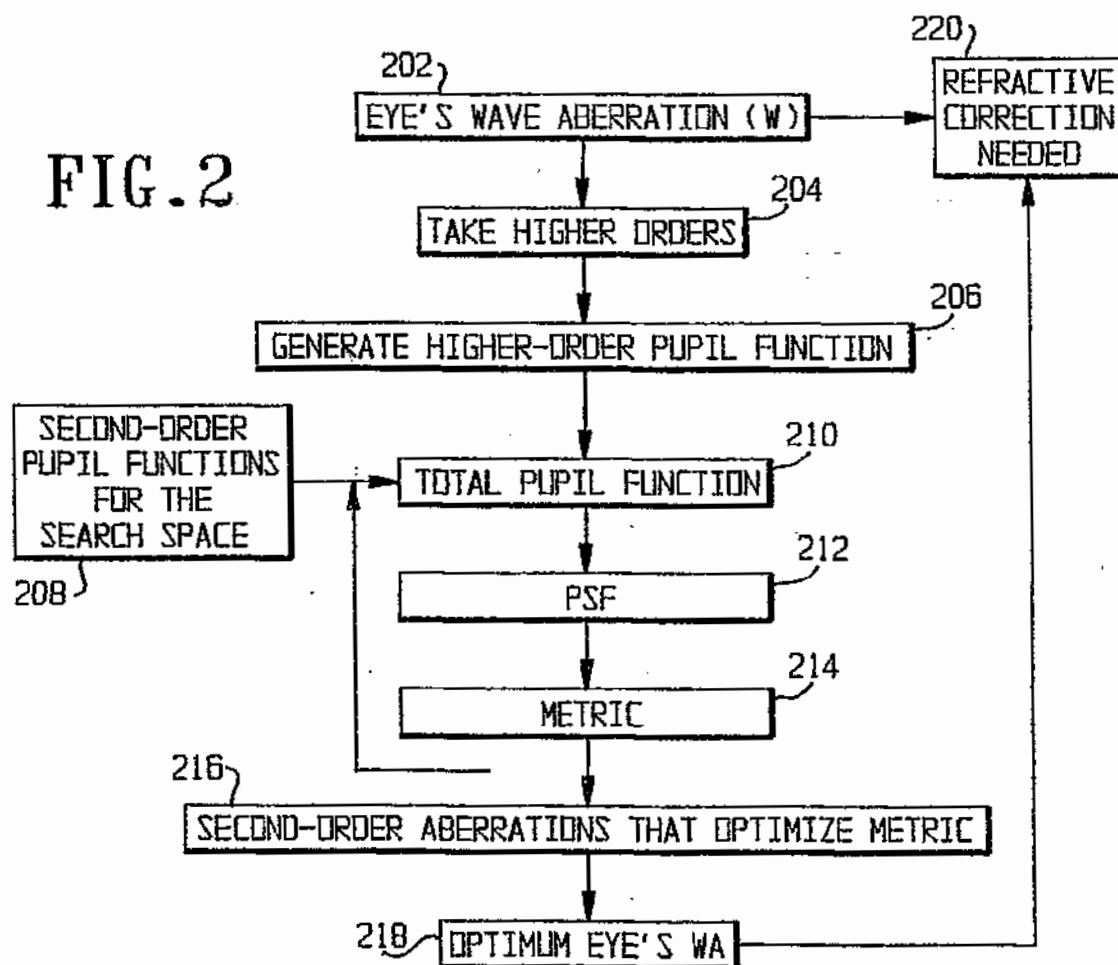


FIG. 1E (PRIOR ART)

FIG. 2



07 APR 2005

4/19

FIG. 3A

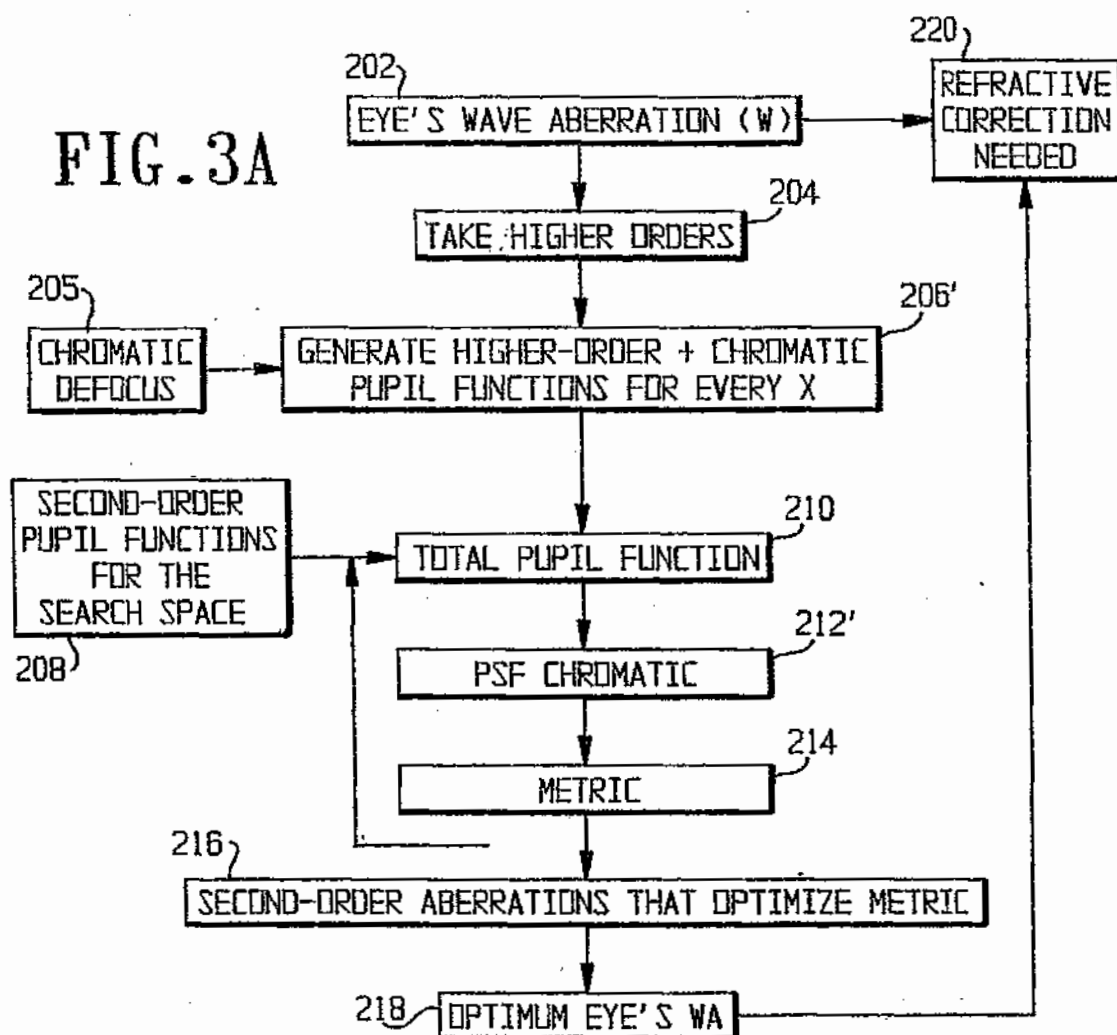
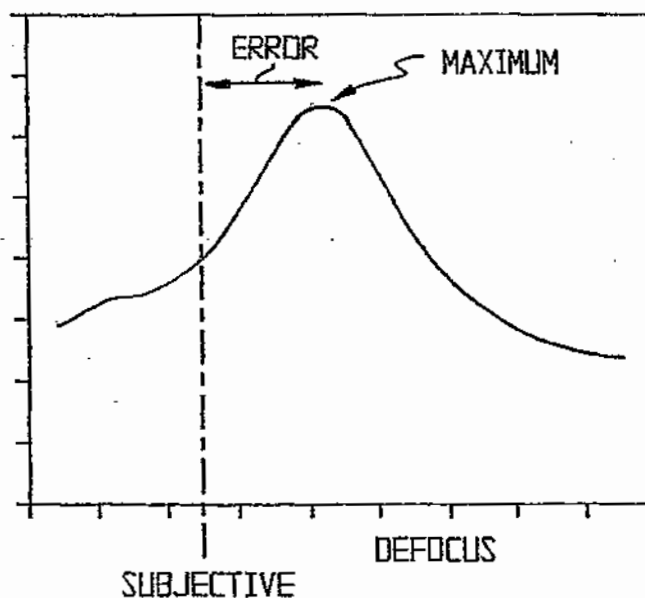


FIG. 3B

OPTIMIZATION OF IMAGE
QUALITY METRICS

SEARCH IN 3D SPACE

METRIC VALUE



5/19

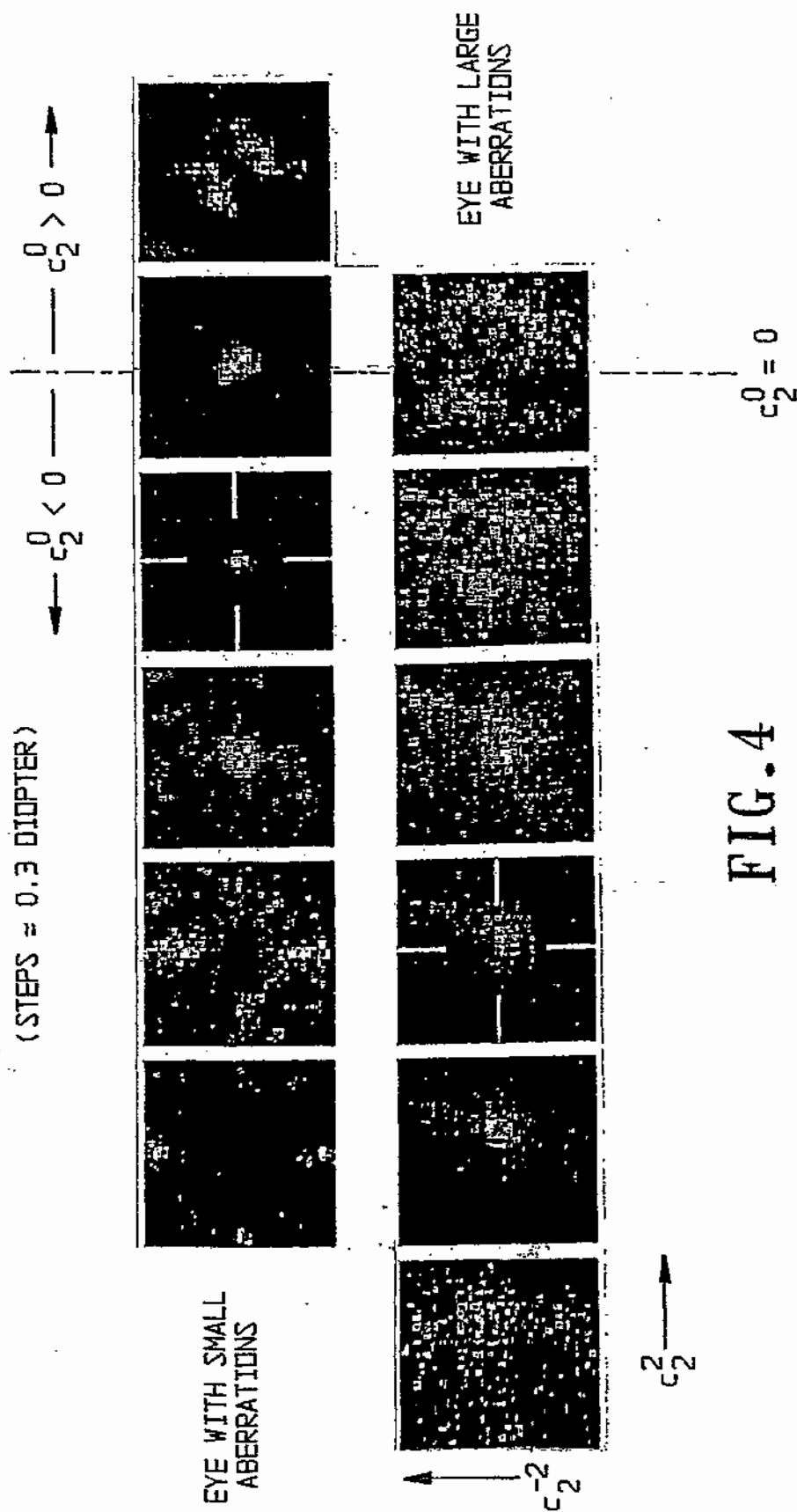


FIG. 4

6/19

FIG. 5

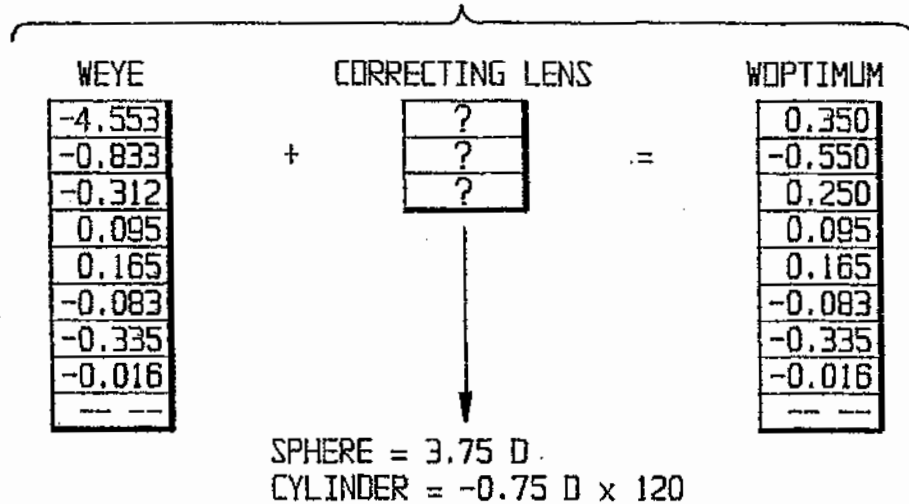
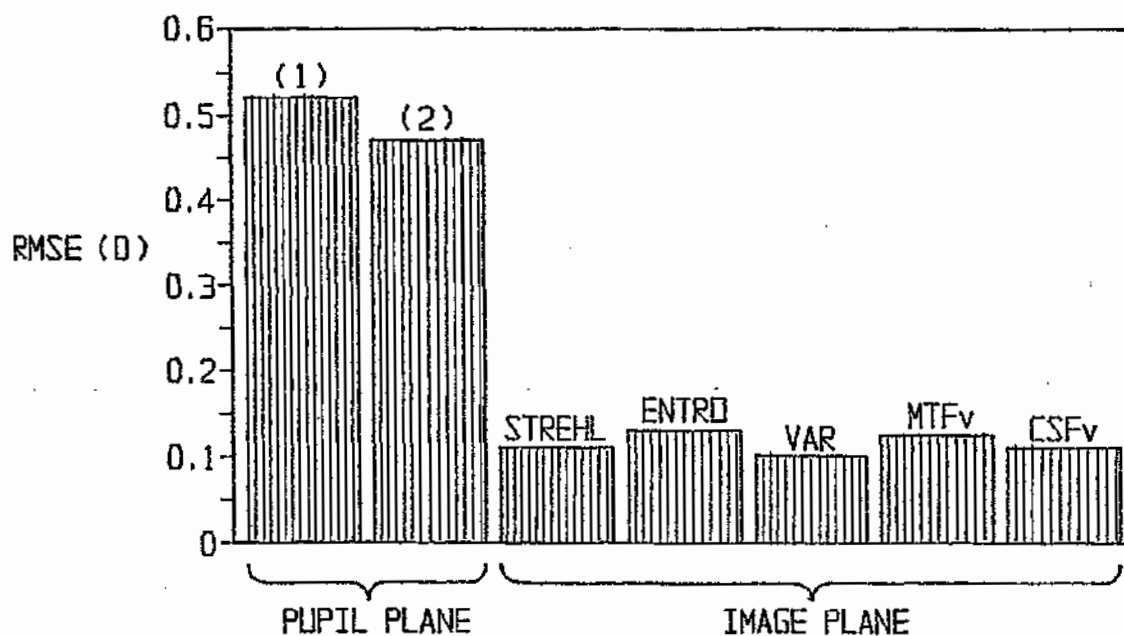


FIG. 9

RMSE BETWEEN SUBJECTIVE AND OBJECTIVE
REFRACTION (ACROSS 6 EYES)



7/19

FIG. 6A

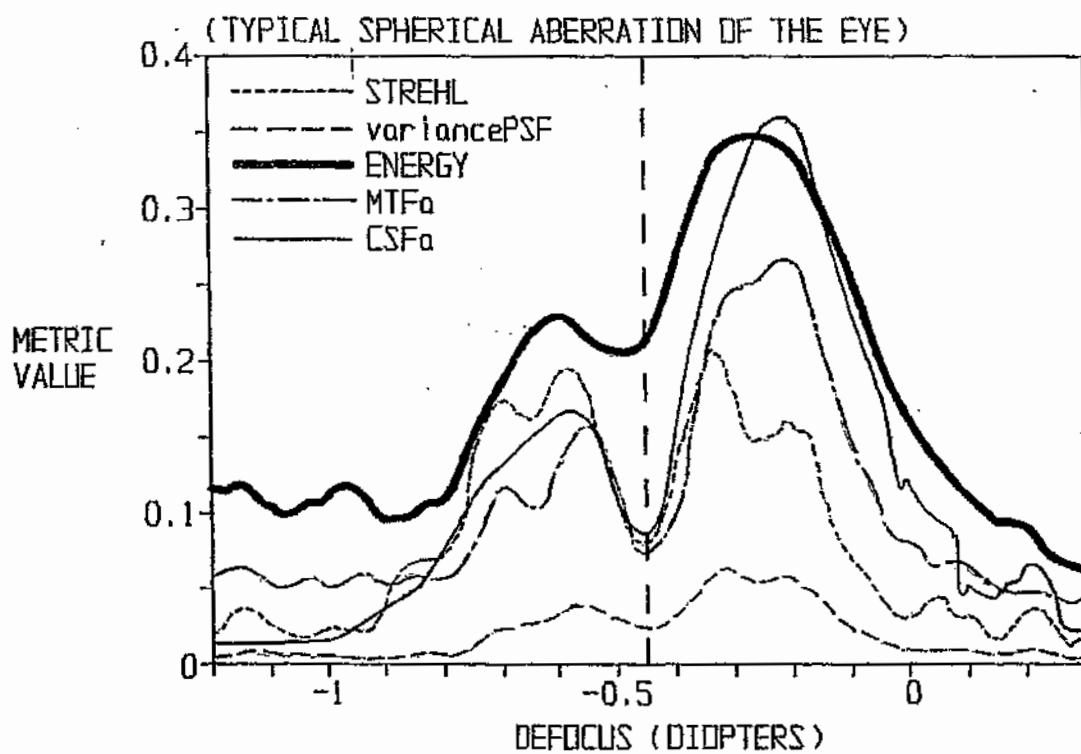
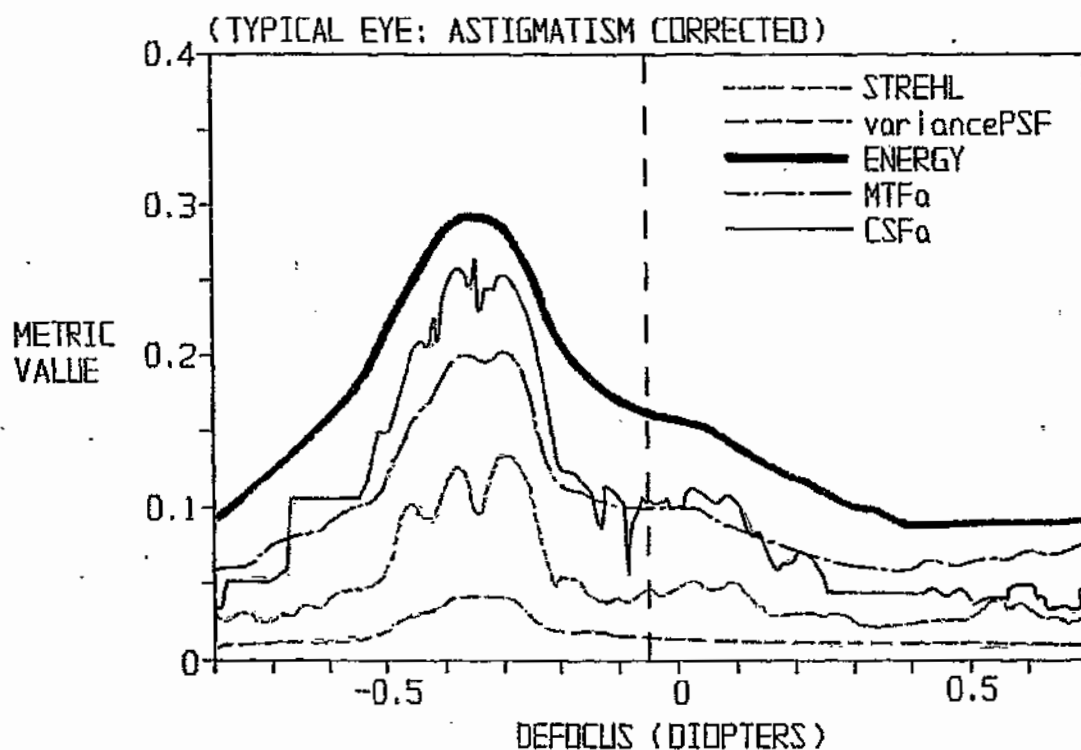
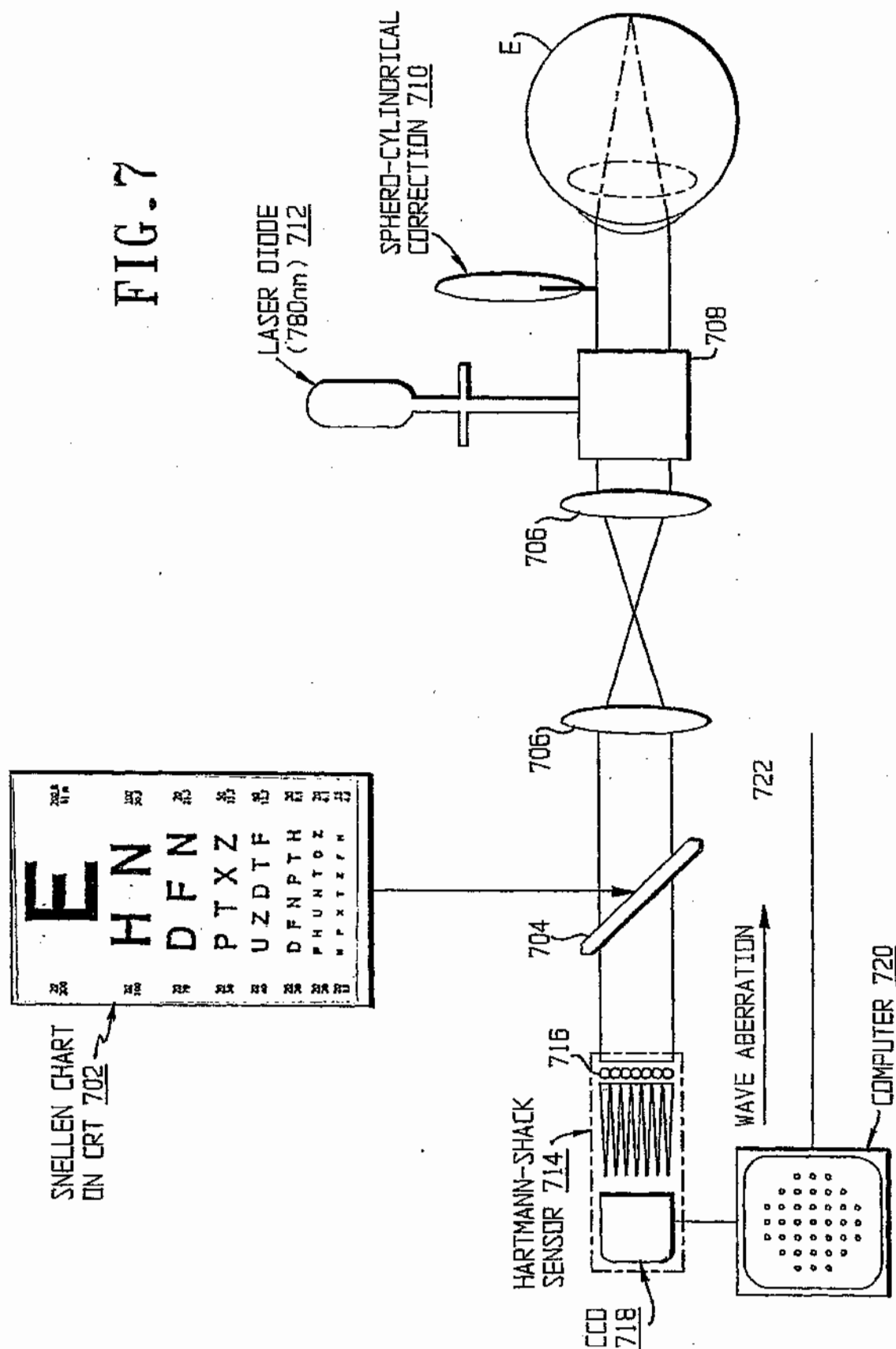


FIG. 6B



8/19



9/19

FIG. 8A

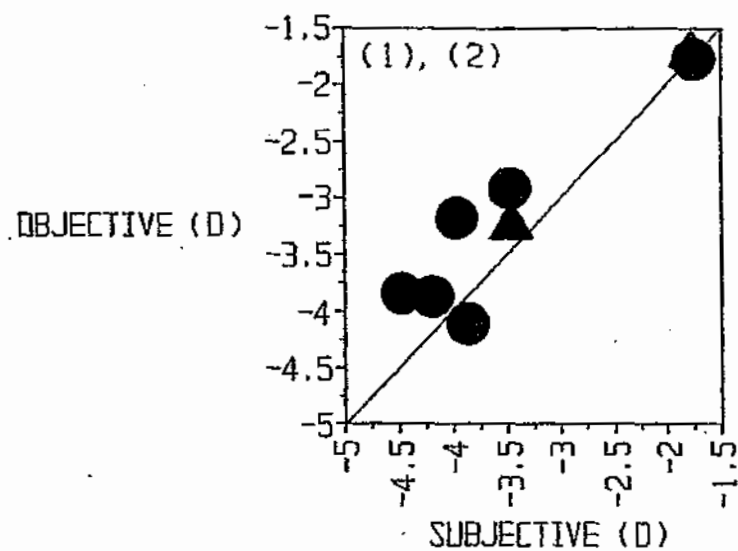


FIG. 8B

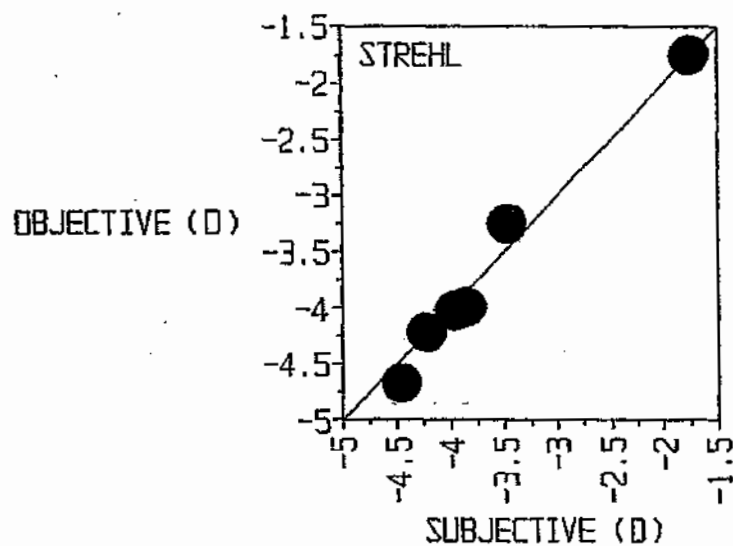
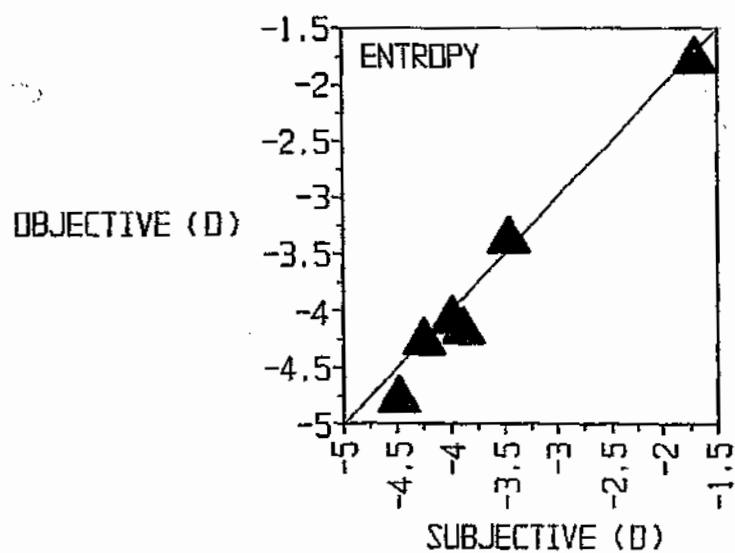


FIG. 8C



10/19

FIG. 8D

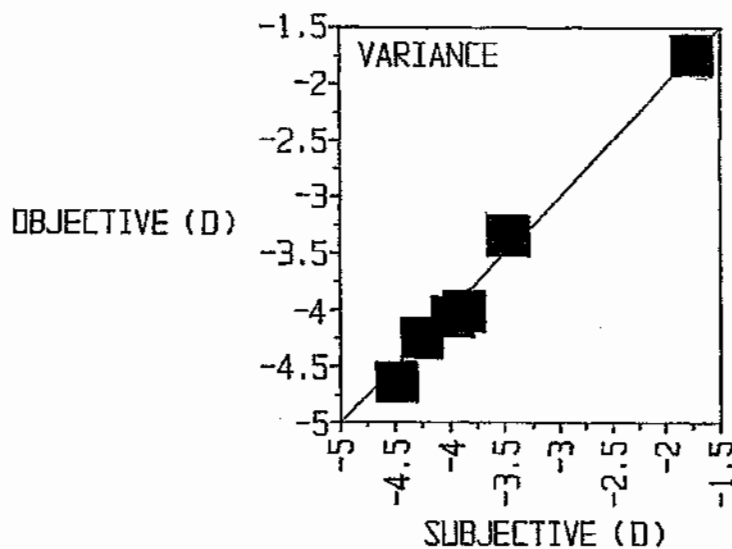


FIG. 8E

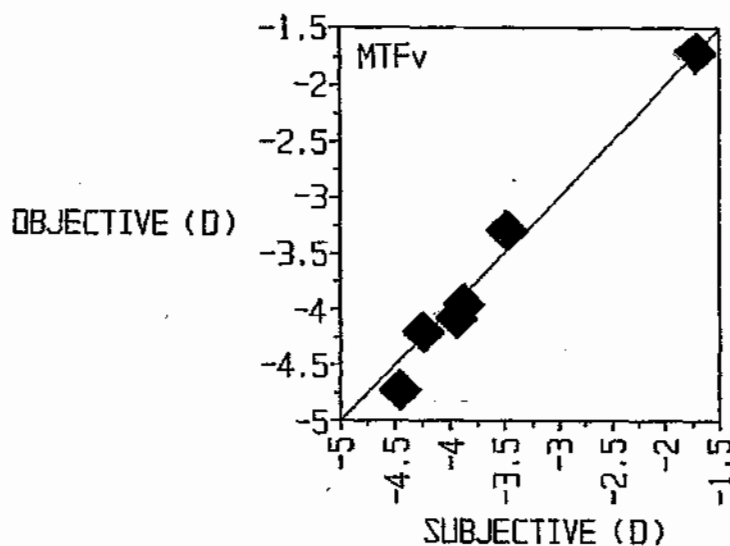
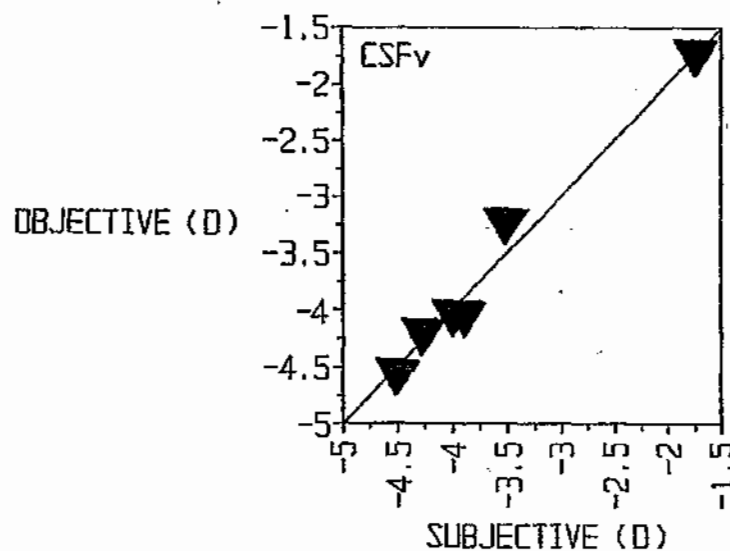
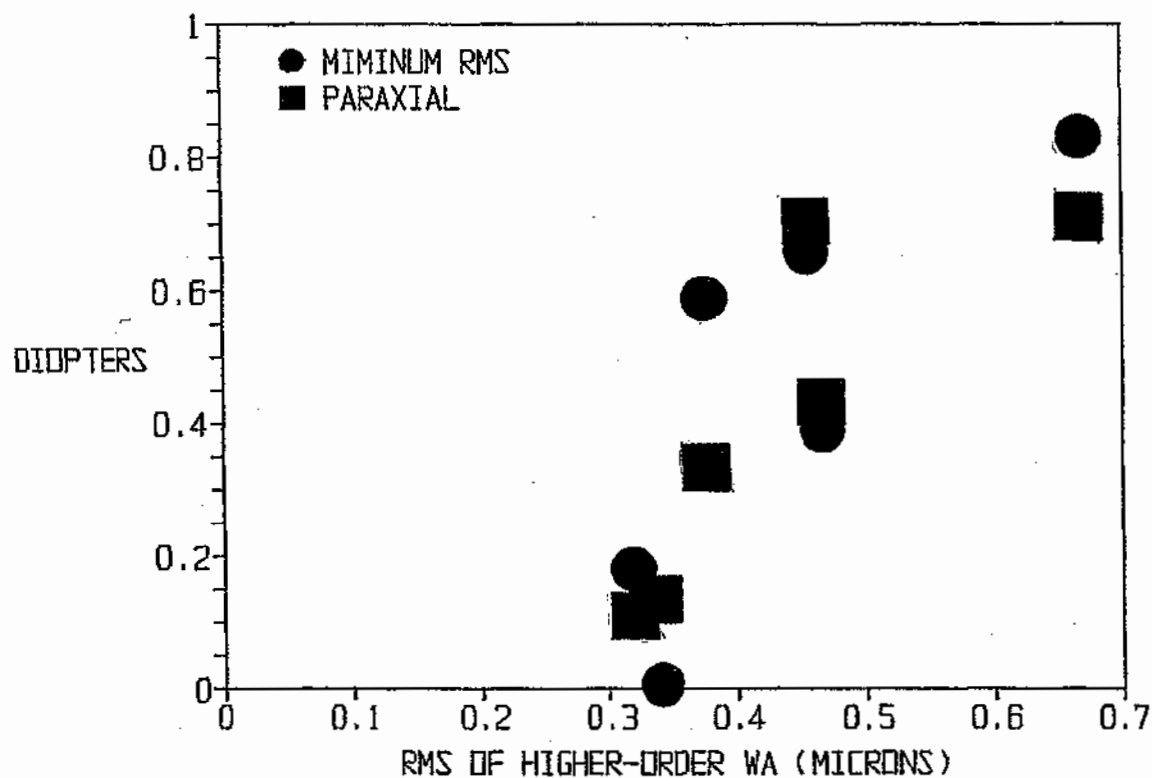
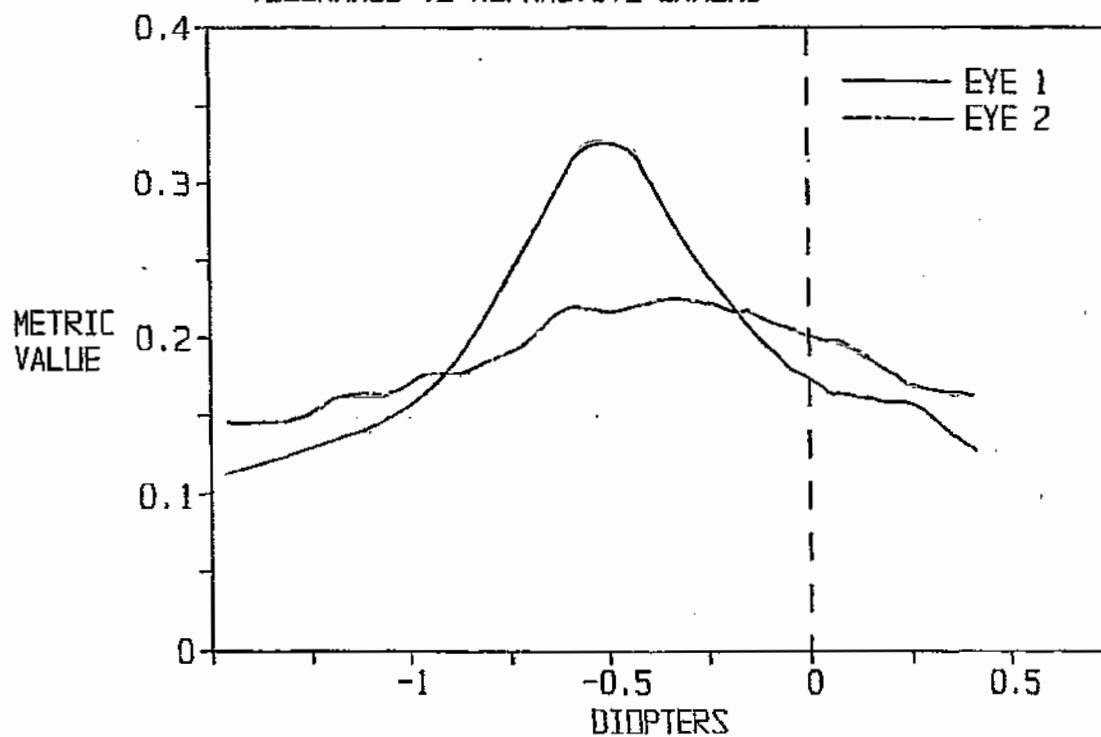


FIG. 8F



11/19

FIG. 10 HIGHER-ORDER AFFECTS REFRACTION**FIG. 11** HIGHER-ORDER AERRATIONS ALSO INFLUENCE THE TOLERANCE TO REFRACTIVE ERRORS

12/19

FIG. 12A

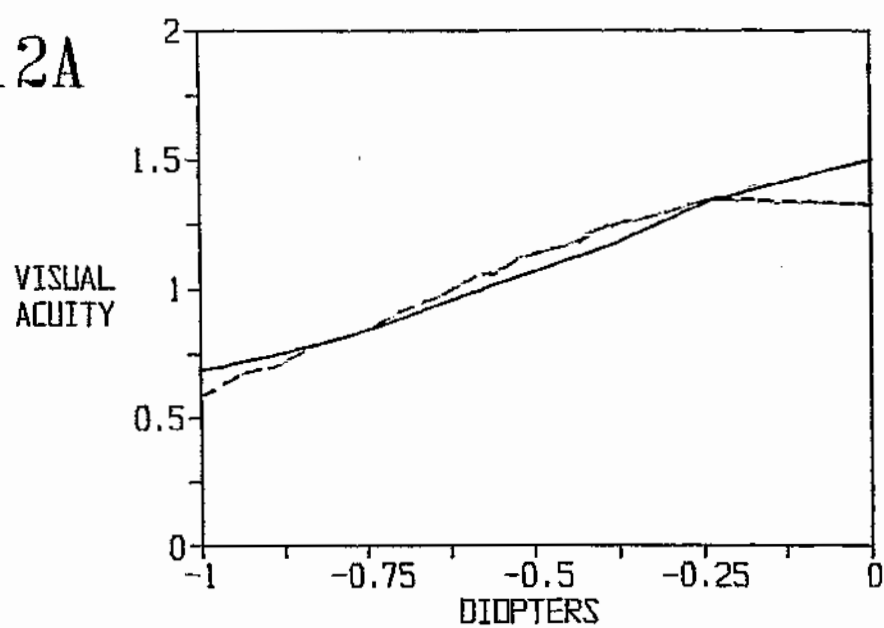
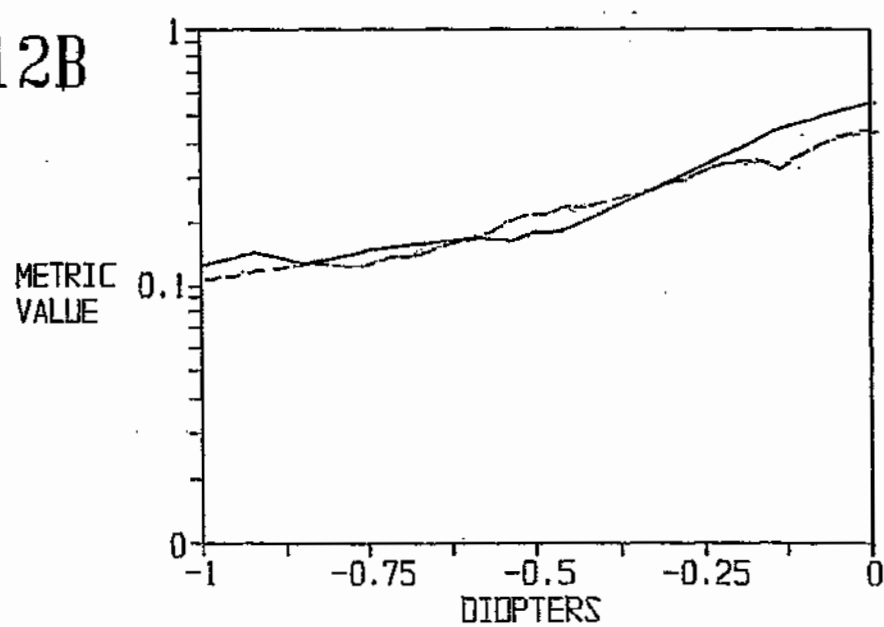


FIG. 12B



13/19

FIG. 13A

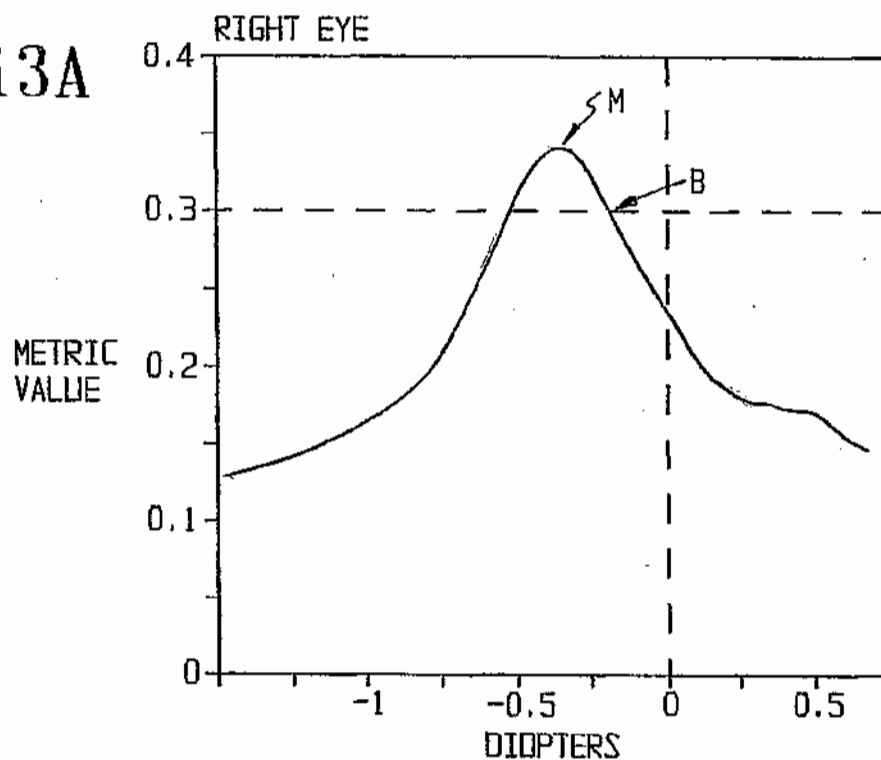
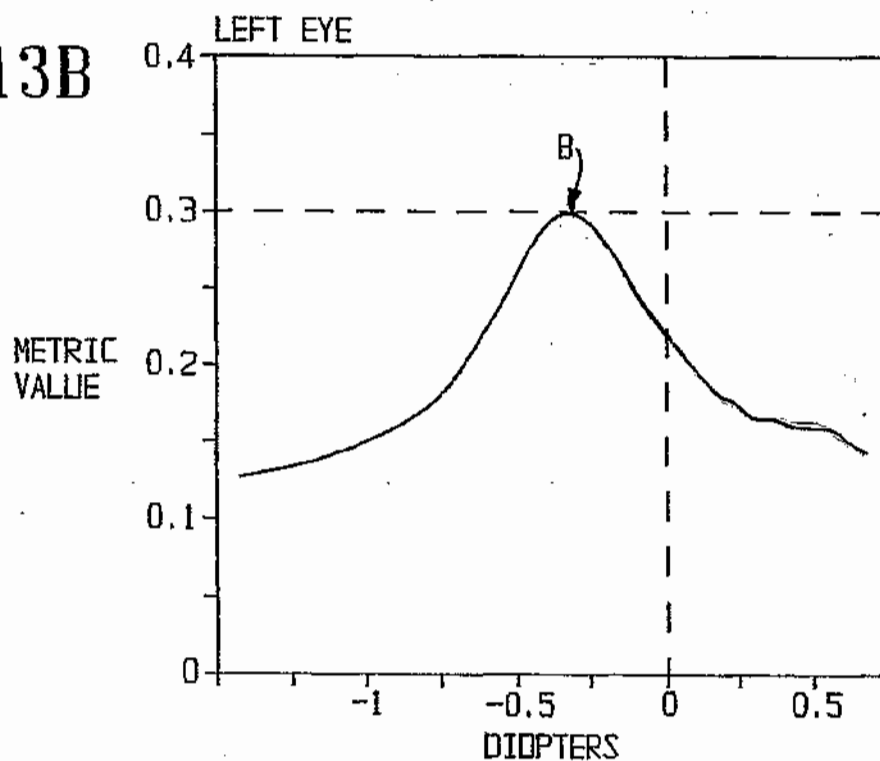


FIG. 13B



14/19

FIG. 14A



FIG. 14B



FIG. 14C

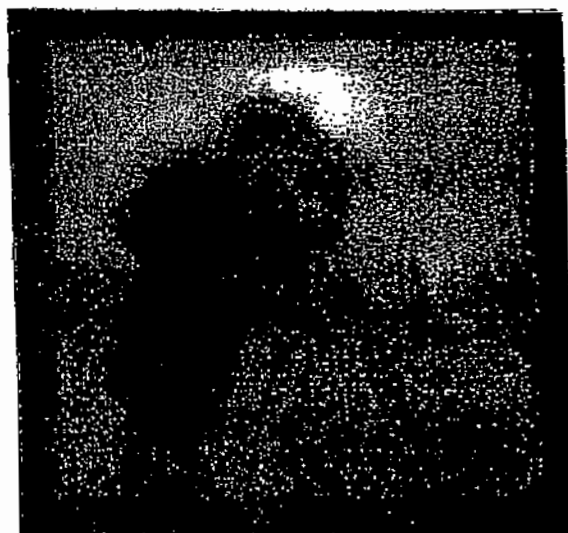


FIG. 15A

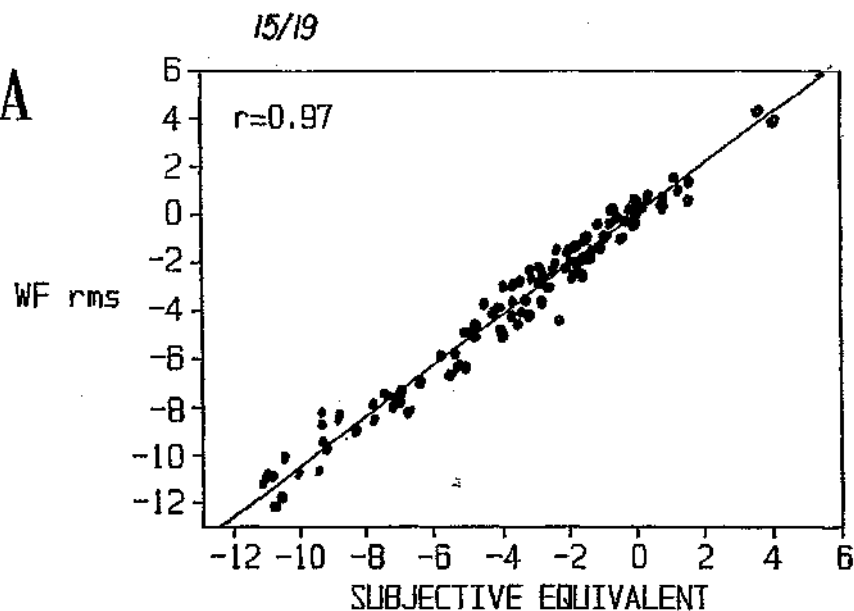


FIG. 15B

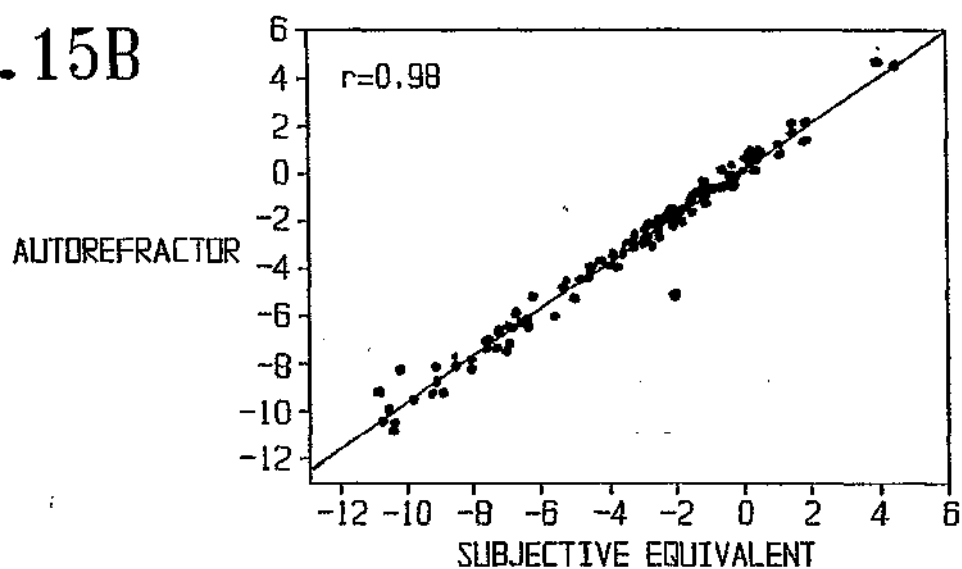


FIG. 15C

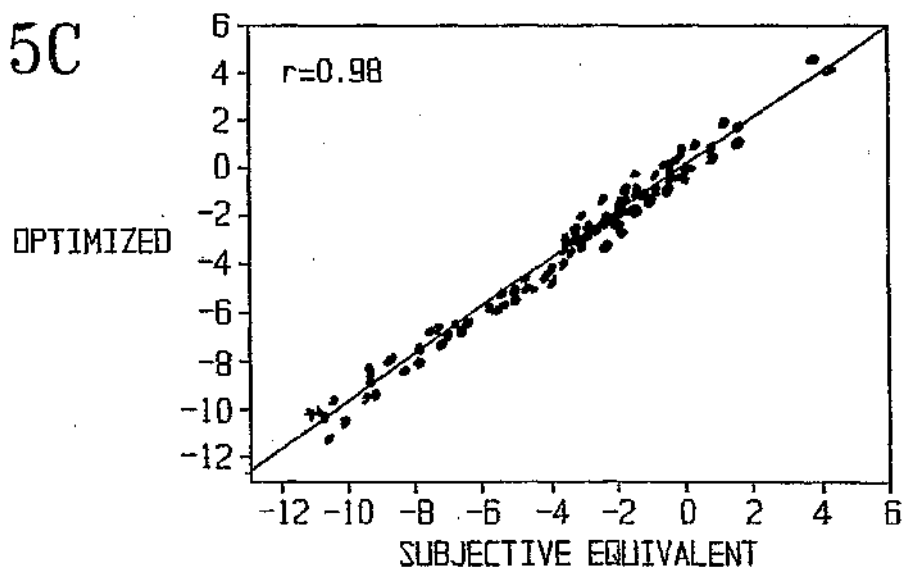


FIG. 16A

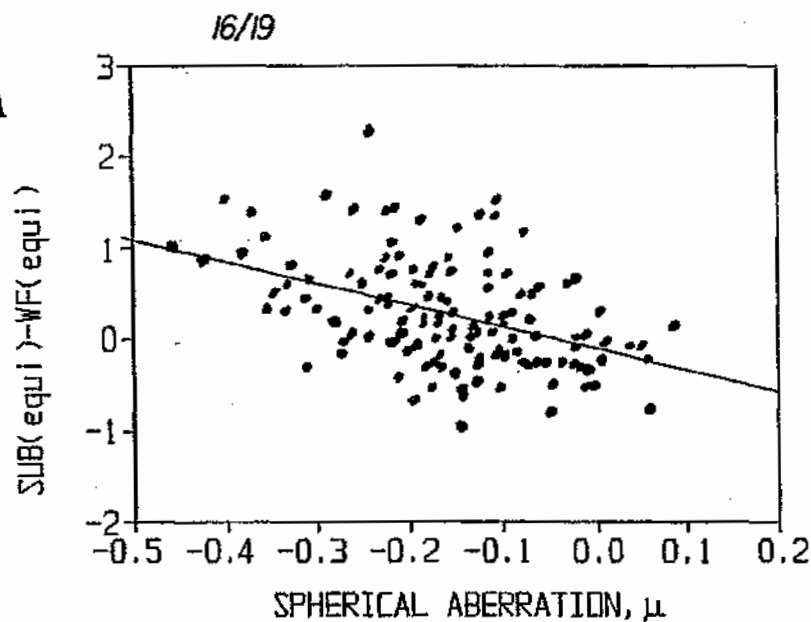


FIG. 16B

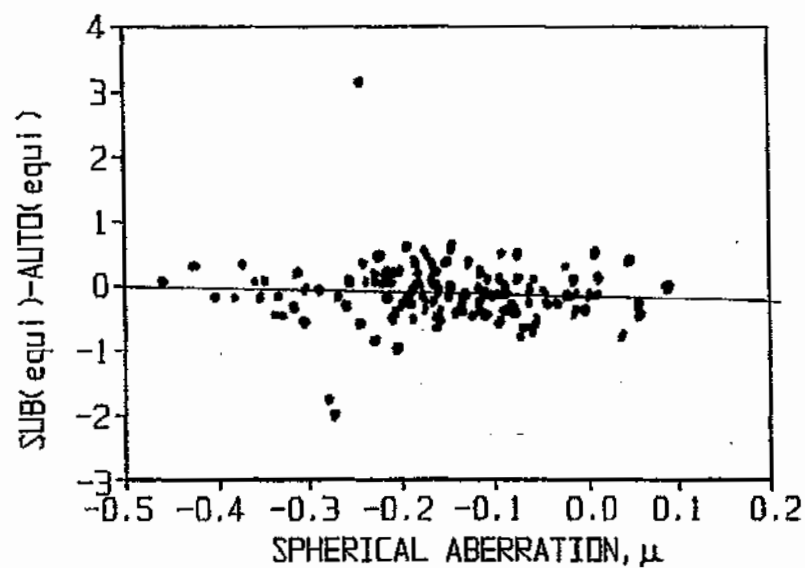
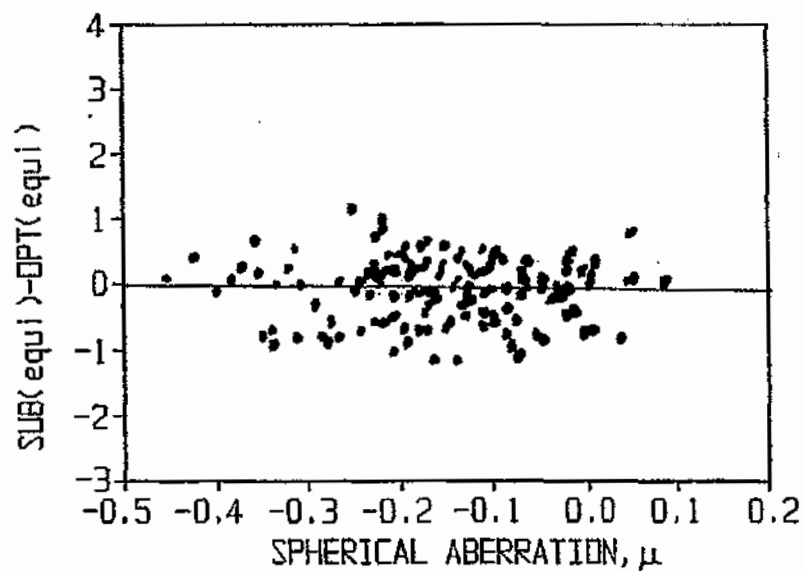


FIG. 16C



17/19

FIG. 17A

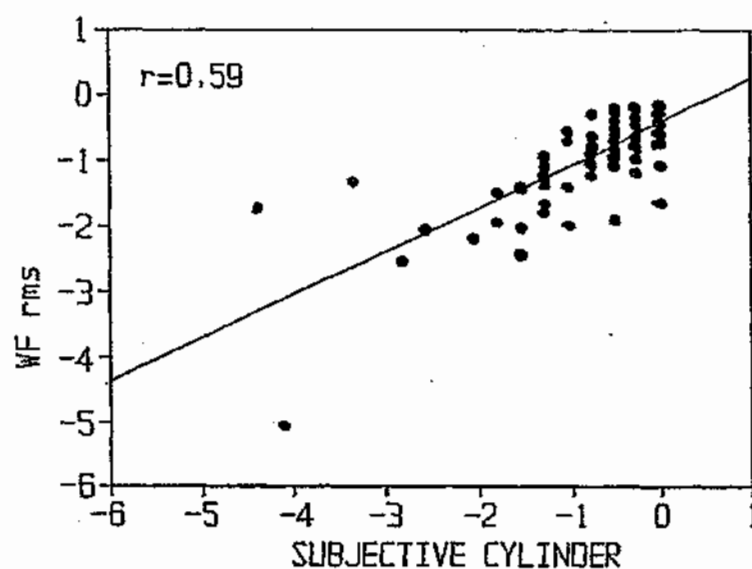


FIG. 17B

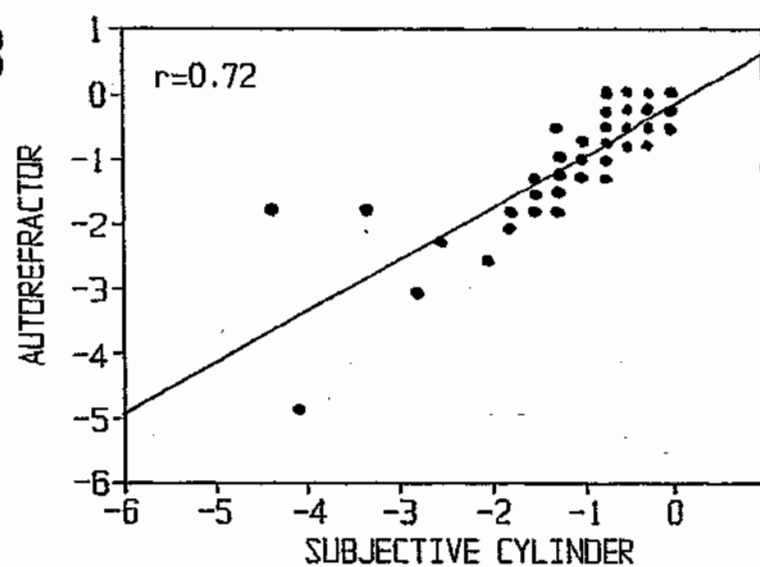


FIG. 17C

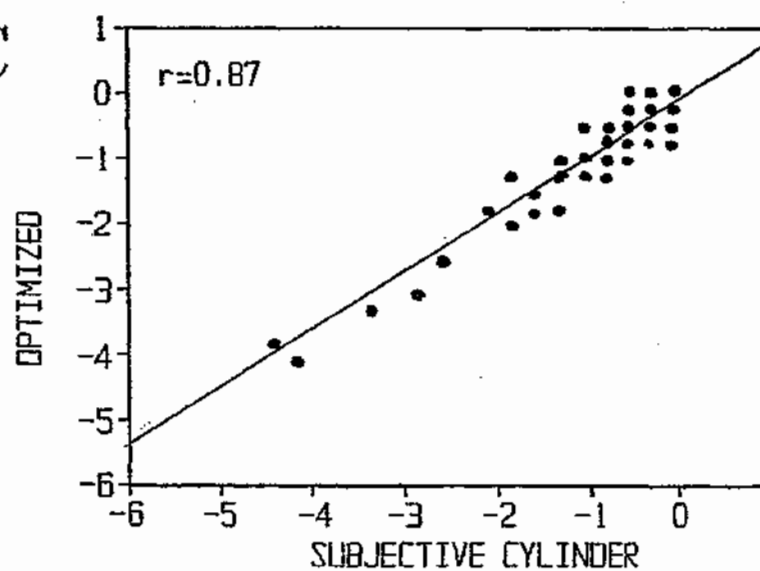


FIG. 18A

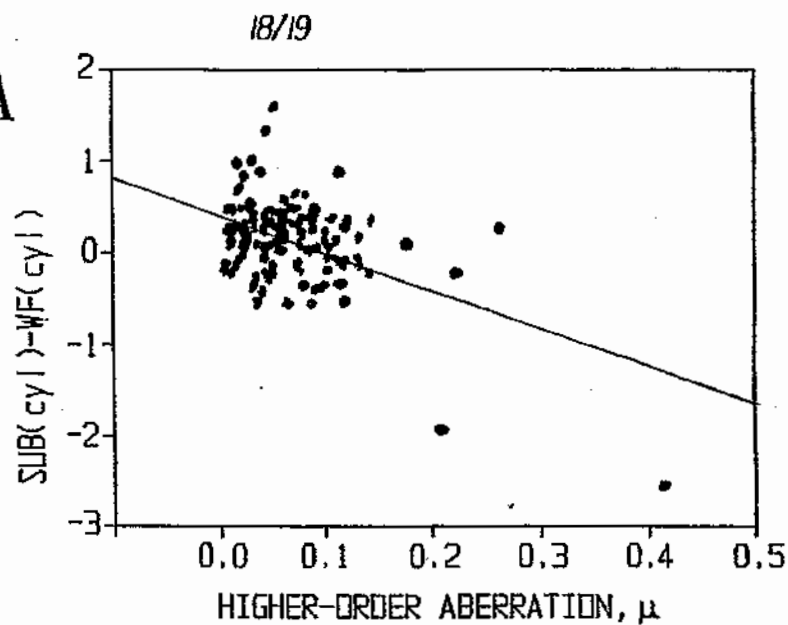


FIG. 18B

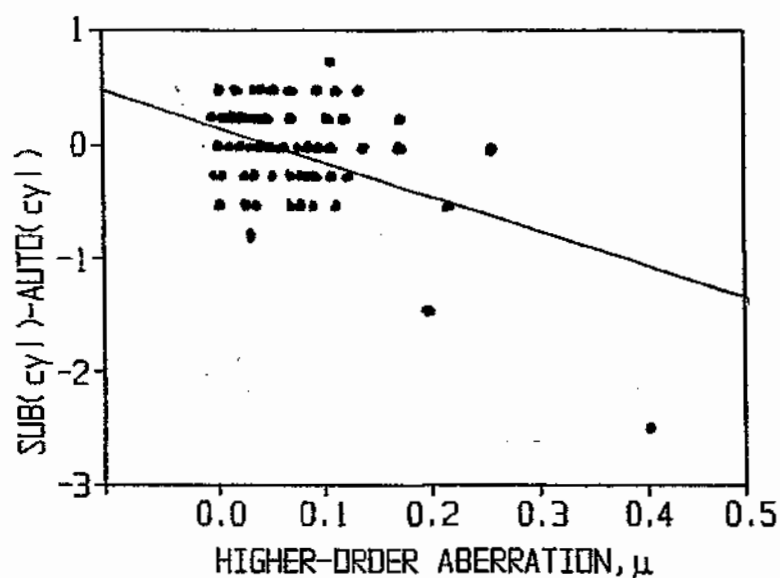
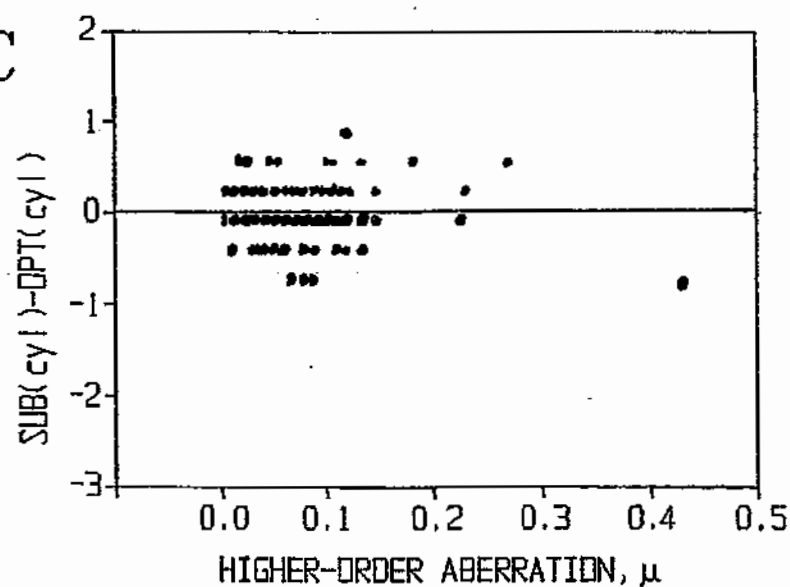


FIG. 18C



19/19

FIG. 19A

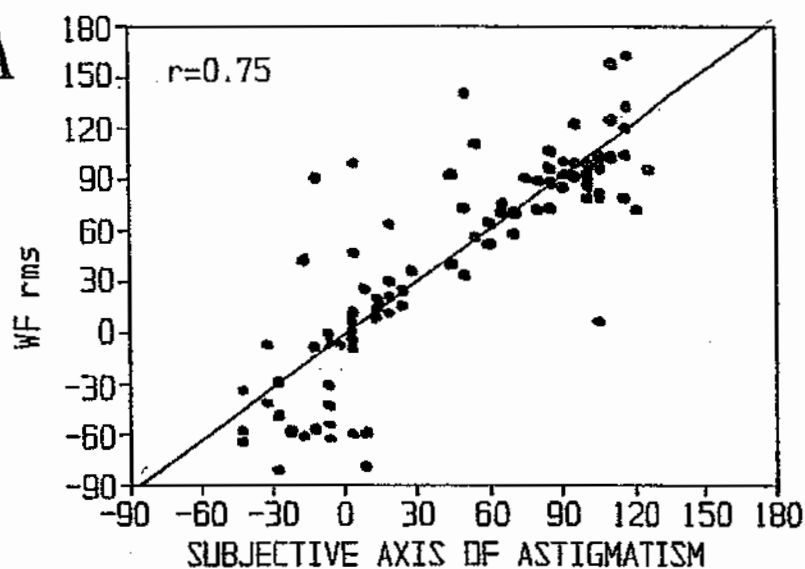


FIG. 19B

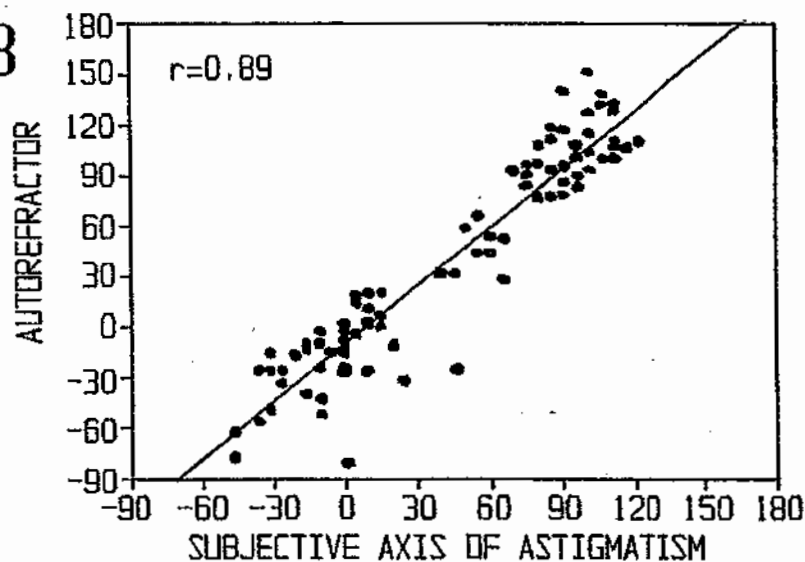


FIG. 19C

