The direction of the proper motion of Grb 34 as given by PORTER has been corrected by +°·4· for orbital motion (*A. N.* 4543, **190**, 117; 1911) supposing the primary to have double the mass of the secondary.

The motion of α Aquilae has already been compared with that of the Hyades by HERBERT C. WILSON (*Lick Bull.* 214, **7**, 64; 1912), but the point of convergence adopted gave too great a difference between calculated and observed direction of the proper motion.

On the motion of the clusters χ and h Persei, by *Ejnar Hertzsprung.*

In *A. J.* 648, **27**, 187; 1913 W. S. ADAMS and A. VAN MAANEN have determined the radial velocities of 14 stars in or near the clusters χ and h Persei. They found that 9 out of these 14 stars have radial velocities of about -43 *km/s* and therefore probably are physically connected. They further state that: „Two of the stars *B. D.* + 56°438 and *B. D.* + 56°593 show rather a large deviation from the mean, but perhaps no larger than might be expected for observations on faint stars having spectra of the type *B* 8."

Nevertheless it is of interest to see, to which consequences we are lead by supposing that the 9 stars really move parallel to each other and that the discordances found in the radial velocities are due to perspective effect. A least square solution thus gave the following calculated value of the radial velocity in an arbitrary direction

$$V = -299{\cdot}0 \sin\delta + 604{\cdot}9 \cos\delta \cos\alpha - 240{\cdot}7 \cos\delta \sin\alpha \; km/s = C_2$$

corresponding to a total motion of about 700 *km/s* in the direction $22\frac{1}{2}^h$, + 25°.

There are too few observations to judge of the value of this somewhat improbable result. It may be wholly illusory. But still it contains a strong invitation to take the question up for further investigation, because, as shown in Table 1, the supposition that all the 9 radial velocities ought to be equal gives 19·2 = (± 4·4 *km/s*)² for the mean square of *O*—*C*, while this square is reduced to 2·1 = (± 1·45 *km/s*)² when perspective effect is assumed.

TABLE 1.

BD	α (1900)	δ (1900)	*O*	*O*—43·4	C_2	*O*—C_2
° ′	h m s	° ′	km/s	km/s	km/s	km/s
+ 57 494	2 1 41	+ 57 56·9	— 41·1	+ 2·3	— 41·3	+ ·2
56 438	2 4 31	57 10·4	— 36·3	+ 7·1	— 38·0	+ 1·7
56 470	2 9 47	56 33·8	— 40·2	+ 3·2	— 39·4	— ·8
56 471	2 9 52	56 35·4	— 41·3	+ 2·1	— 39·7	— 1·6
56 522	2 12 3	56 40·4	— 43·1	+ ·3	— 43·2	+ ·1
56 530	2 12 12	56 42·4	— 44·6	— 1·2	— 43·7	— ·9
56 568	2 14 51	56 47·1	— 47·4 *)	— 4·0	— 47·7	+ ·3
56 593	2 15 55	56 55·8	— 51·4	— 8·0	— 50·3	— 1·1
55 612	2 18 12	56 9·4	— 44·8	— 1·4	— 46·9	+ 2·1

*) Mean with PLASKETT'S value.

TABLE 2.

BD	α (1900)	δ (1900)	vis. mag.	spectrum *H.D.*
°	h m	° ′	m	
+ 56 424	1 59·4	+ 56 50	8·0	*B* 8 *ac*
58 397	2 6·0	58 20	8·2	*A* 2 *ac*
57 519	6·6	58 6	6·50	*A* 0*p c*
57 522	7·9	58 1	7·65	*B* 9
57 526	8·9	57 50	7·8	*A* 0*p c*
56 475	10·0	56 15	7·7	*B* 2*p c*
56 478	10·2	56 19	8·9	*B* 8 *c*?
55 588	13·8	55 27	6·84	*B* 9*p c*
56 591	15·8	56 47	7·46	*A* 0 *c*?
54 539	18·3	54 48	7·51	*B* 9
56 621	19·2	56 47	7·42	*A* 0 *ac*
57 568	19·6	57 14	7·32	*B* 1 *c*?
57 576	22·8	57 22	7·30	*A* 2*p c*
57 582	24·6	57 15	7·20	*B* 3
57 594	28·9	57 38	7·98	*A* 0*p ac*
59 535	36·3	59 24	7·71	*B* 9*p c*
57 634	40·0	57 15	8·0	*B c*

Table 2 contains a list of 17 stars recommended in this connection for determination of their radial velocities. If e.g. the star *B. D.* + 57°568 to the north-east of χ and h Persei proves to have a radial velocity about 10 *km/s* more negative than the mean of the 9 stars (i. e. of about -53 *km/s*) then the probability that the stars belonging to the clusters show appreciable perspective change in radial velocity is considerably increased. Similarly the star *B. D.* + 56°424 should have a radial velocity about 10 *km/s* more positive than the mean (i. e. of about -33 *km/s*).

Finally attention may be called to the following 3 stars of similar peculiar spectrum, viz. *B* 5*p* with narrow lines, lying within 1° from each other and about 7° from χ and h Persei:

B. D.	α (1900)	δ (1900)	vis. magn.
	h m		m
+ 63°274	1 55·6	+ 63°54′	5·62
+ 63°310	2 7·6	63 34	8·0
+ 63°315	2 11·1	63 58	7·05