College of New Jersey.
Princeton, N. Jersey, U.S.
May 1, 1880 -

Sig. Professor P. Tacchini

Dear Sir

I write to return my thanks for the "Memorie degli Spettroscopisti &c which have just come to me, forwarded from my former residence at Dartmouth College. I had not received an numbers

send you a short paper upon the polar compression ~~diameter~~ of Mars - I send by the same mail with this another bearing upon an important problem of Practical Astronomy.

I expect in about a year to be in possession of a large telescope now in process of construction by Clark of Cambridgeport. It is to have an aperture of 23 inches & a focal length of about 30 ft, & is to be

since leaving that place two years ago, and was very sorry to have lost them as I ~~sup~~ supposed; but a little time ago my successor at Dartmouth informed me that they were still coming there to my old address. Our postal laws do not authorize the Postmaster to forward printed matter to a person who has changed his address, except by special arrangement & prepayment of postage, so that all the numbers you had so kindly sent me for a long time were lying unopened at Hanover. I assure you I am delighted to get them at last.

May I ask that hereafter you will write my address as given at the beginning of this letter. —— A few weeks ago I did myself the honor to

used mainly for making a spectroscopic study of stellar motions.

I have been doing very little spectroscopic work of late, but have been spending a little time in examining with a high dispersion the solar region of spectrum between D & F. I find that my collimator & telescope of 3 inch aperture & about 4 ft focus, & a reflecting grating with about 17000 lines

to the inch, the ruled surface being about 2 inches square. With this I find that E_1 is double, as well as b_3 & b_4, and in fact nearly all of Mr Lockyer's so called basic lines in that region. I hope soon to be able to try whether this duplicity arises ~~from~~ from the the mere juxtaposition in the solar spectrum of lines due to different elements; in E_1 for instance, of Fe & Ca.

With the greatest respect

I remain, dear Sir, Yours very truly

C. A. Young