

of both spaces $i = 0, j = 0$ for cusps; in each of these points the section of the plane with the osculating space of $j = 0$ form the cuspidal tangent. As is known the space $D = 0$, also by the aid of its double surface $i = 0, j = 0$, divides the space S^4 into three parts containing the points for which the number of the real osculating spaces passing through them is successively 4, 2 and 0.

Physics. — Prof. HAGA made, both on behalf of himself and Dr. C. H. WIND a communication: „*On the deflexion of X-rays*”.

Deflexion of X-rays was proved on the experiment being arranged as follows:

The RÖNTGEN-tube was placed behind a slit 1 cm. high and 14 microns wide; at 75 cm. from the latter was the diffraction slit, which gradually diminished in width from 14 to about 2 microns. The photographic plate was placed at 75 cm. from the diffraction slit. Time of exposure from 100 to 200 hours. The image of the slit first became narrower and then showed an unmistakable broadening. From the width of the part of the diffraction slit corresponding to this broadening and the character of the broadening an estimation can be made of the wavelength. It appeared that X-rays exist of about 0.1 to $2\frac{1}{2}$ ÅNGSTRÖM units, comprising 4 octaves.

(A detailed paper will appear in the Proceedings of the next meeting).

Physiology. — Prof. STOKVIS presented for the Library the inaugural dissertation of Dr. G. BELLAAR SPRUYT: „*On the physiological action of methylnitramine in connection with its chemical constitution.*”

At different occasions our member Prof. FRANCHIMONT exposed in our meetings his views about the chemical structure of nitramines, especially of methylnitramine. Till yet the question about the intimate chemical constitution of these compounds, in reference to the manner, in which their nitrogen is linked with the other elements, is an open one. Whereas some authors believe, that the nitrogen of nitramines is linked with hydroxyle, so that the whole compound is a species of nitrite: $\text{H}-\text{O}-\text{N}=\text{O}$, Prof. FRANCHIMONT rejects this view, and considers it linked in a cyclical

way, for instance $\text{H}-\text{N} \begin{array}{l} \diagup \text{O} \\ | \\ \diagdown \text{O} \end{array}$ or $\text{H}-\text{N} \begin{array}{l} = \text{O} \\ // \\ = \text{O} \end{array}$. As Prof. FRANCHI-

MONT considered it of some value to study the physiological action of nitramines, to the aim of throwing more light on the open