

Zemax/Oslo optical index with temperature

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- *From:* "S Victori" <ordure_demaboitemail@xxxxxxxxxxx>
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Hi,

I'm working on a very simple optical design containing one lens (1 glass (such as N-BK10 for exemple)) at different temperatures.

I'm just trying to calculate the optical index values of the glass using Sellmeier equation and its derivative according to the temperature.

Using Zemax or Oslo at 532nm and asking for the index values for $T = -10, 0, 10, 20, 30, 40^{\circ}\text{C}$ leads to approximatly the same results :
 $n(@532) = 1.500188, 1.500221; 1.500254, 1.500322; 1.500357.$

When I try to do it using their formula it does not fit at all even if I know that Zemax and Oslo always scale the index so that the air index is 1.

Does anybody has solved the simple question ?

Best regards,

SV