

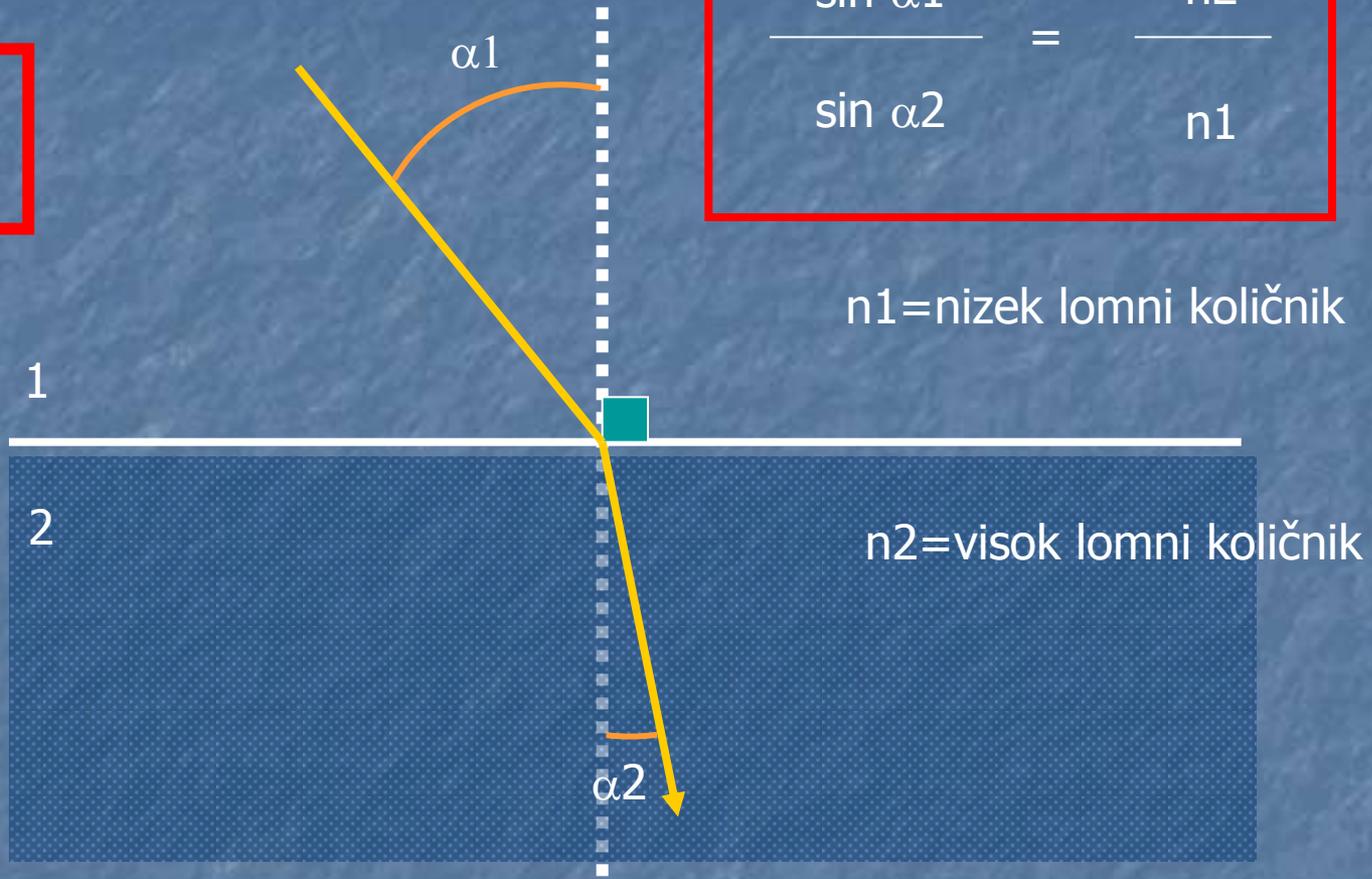
# OPTIČNA KRISTALOGRAFIJA

$$n = \frac{v_v}{v}$$

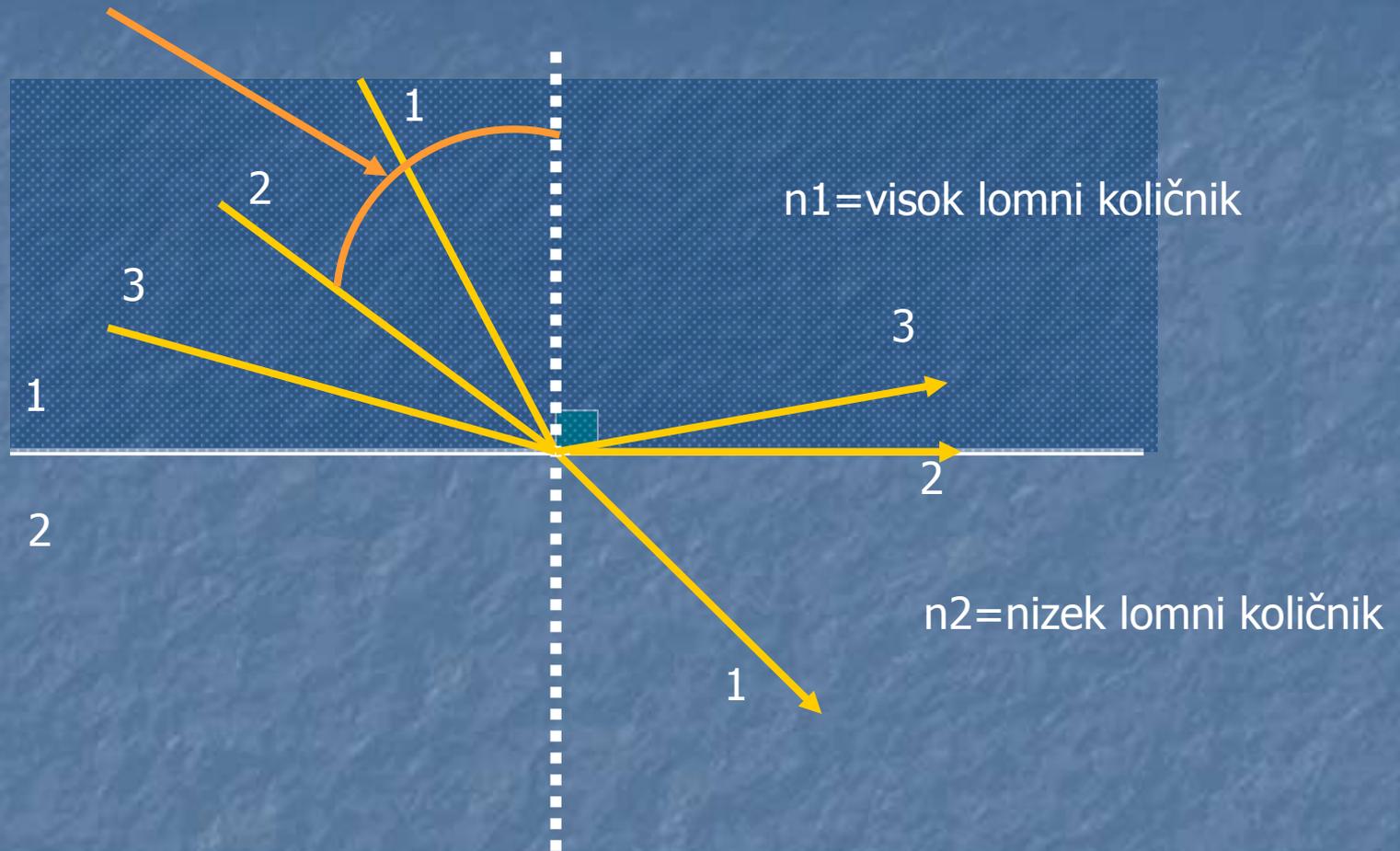
$$n_{\text{vakuum}} = 1$$

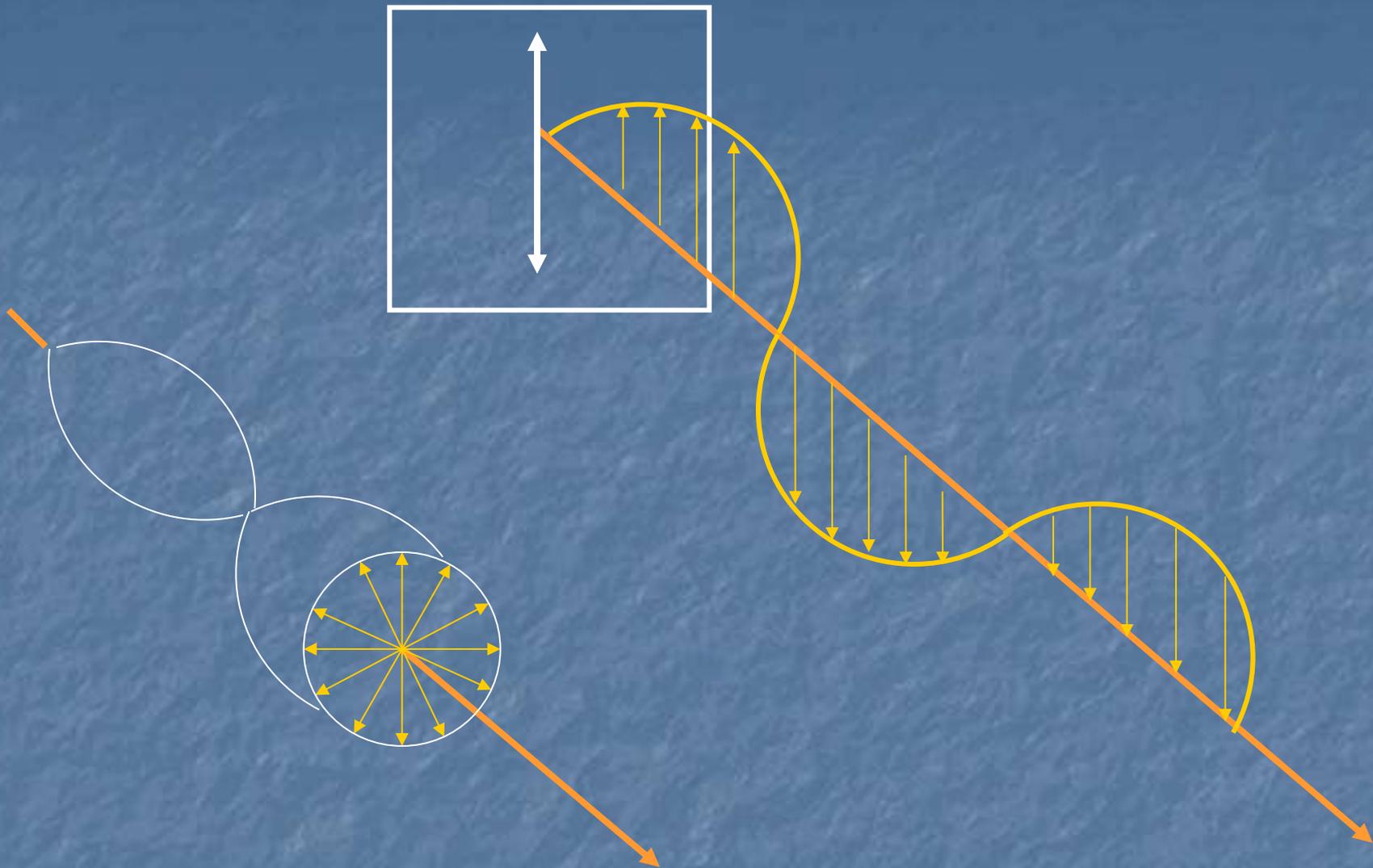
Snell-ov zakon:

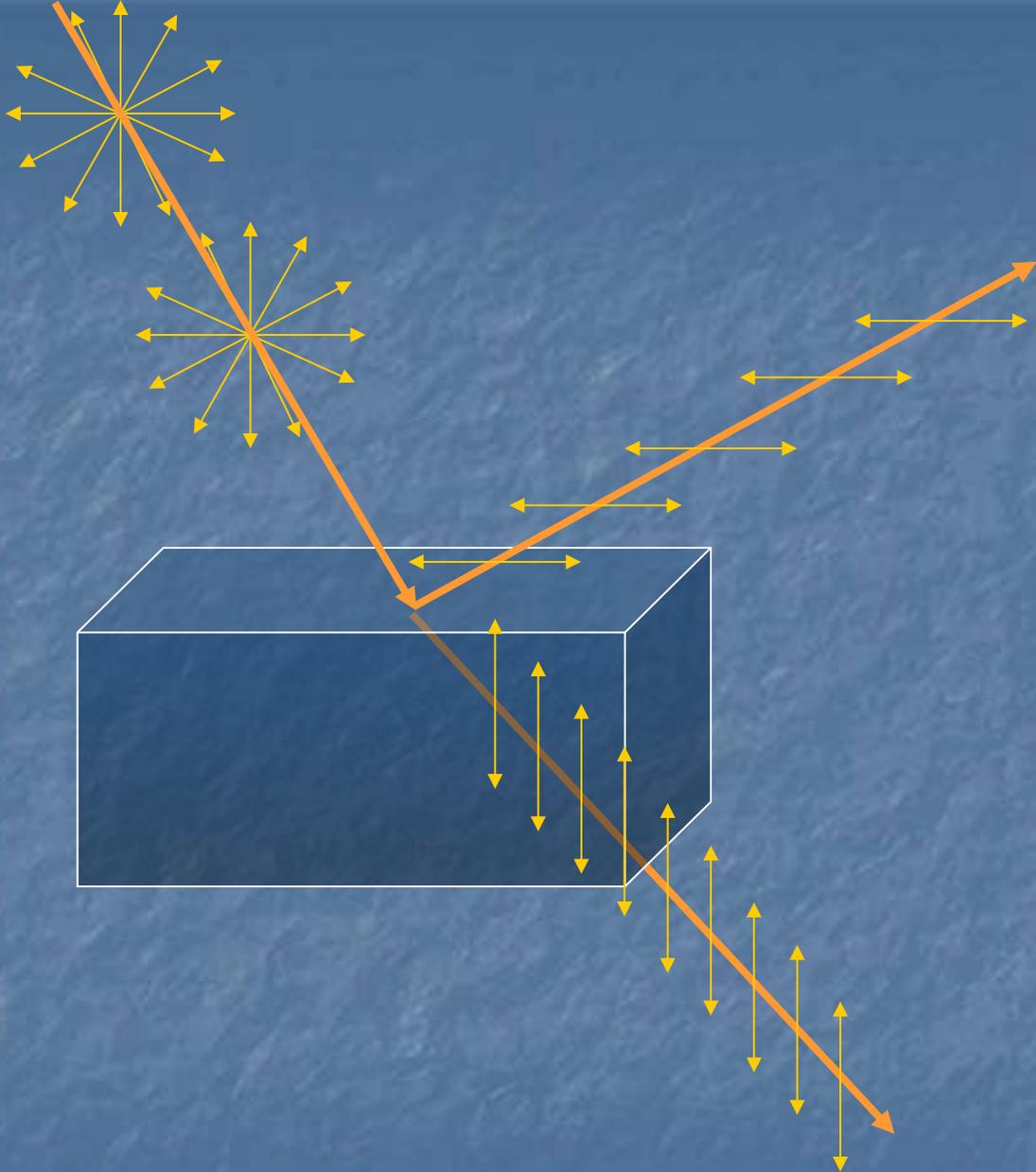
$$\frac{\sin \alpha_1}{\sin \alpha_2} = \frac{n_2}{n_1}$$

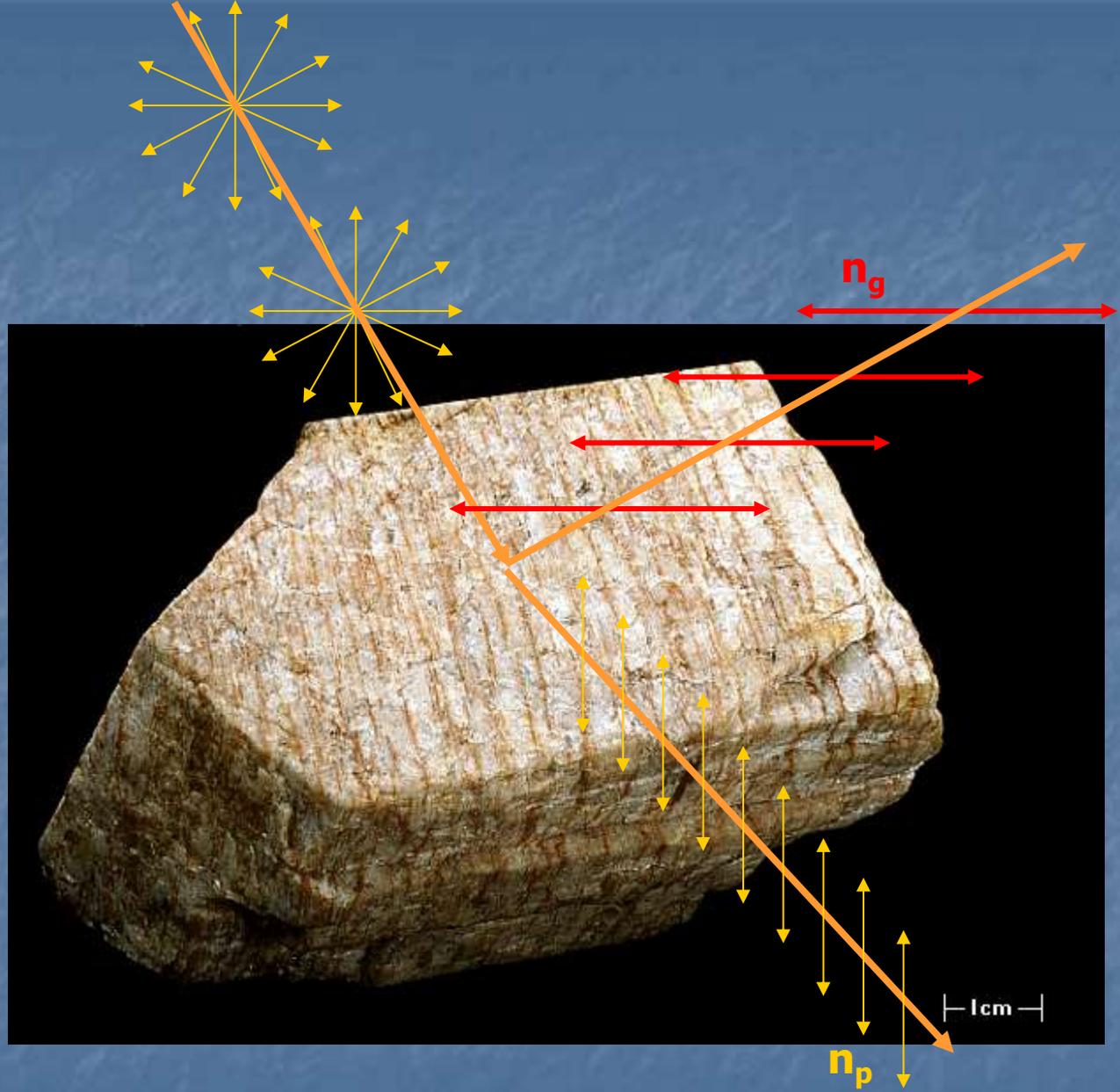
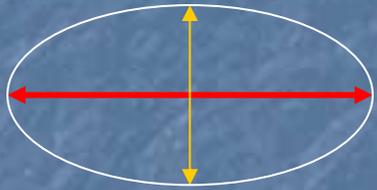


# KOT POPOLNEGA ODBOJA

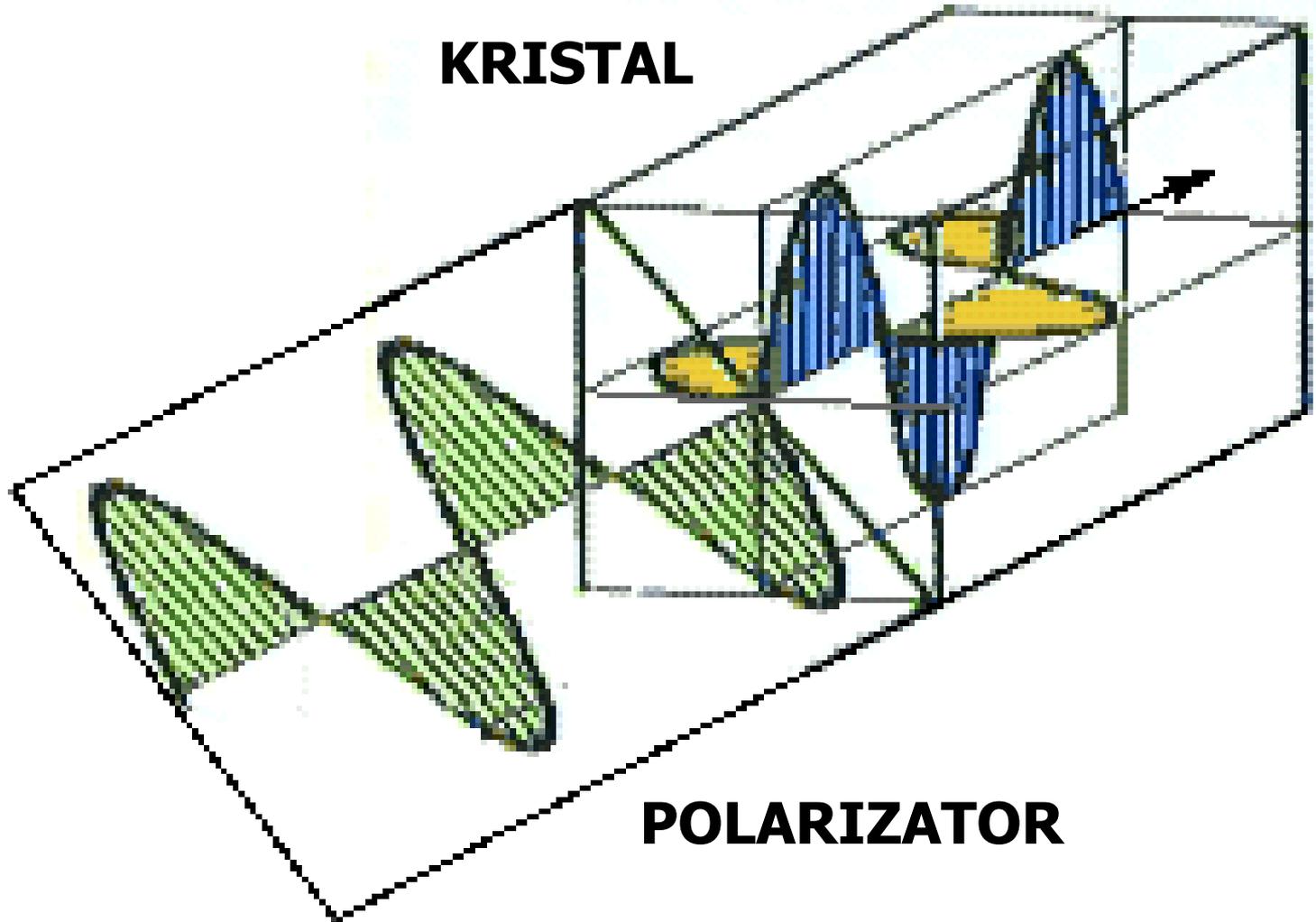








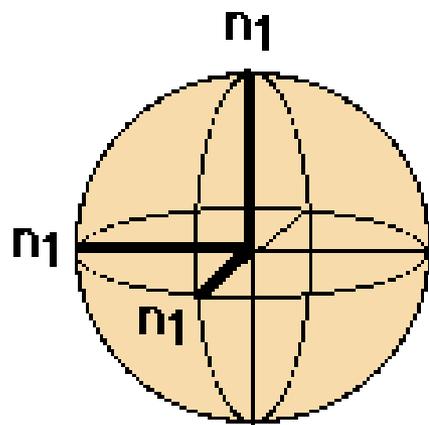
**KRISTAL**



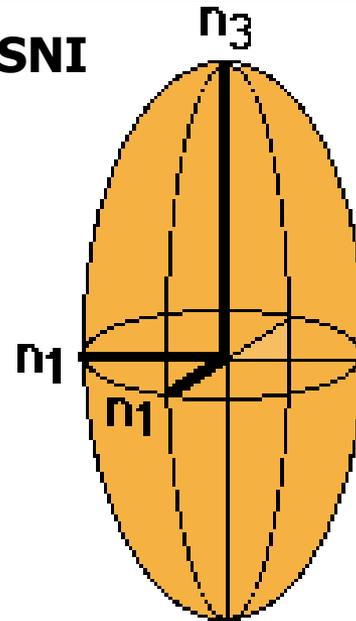
**POLARIZATOR**

# VRSTE OPTIČNIH INDIKATRIS

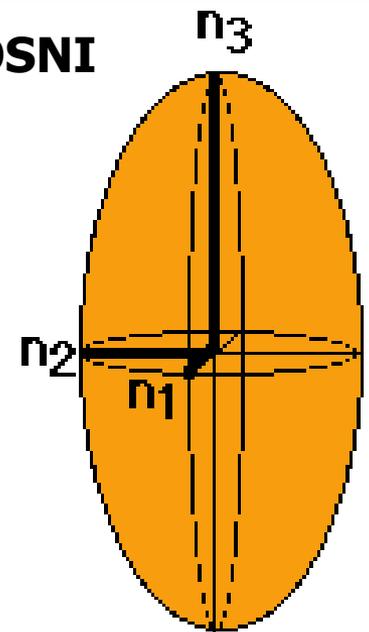
**IZOTROPNI**



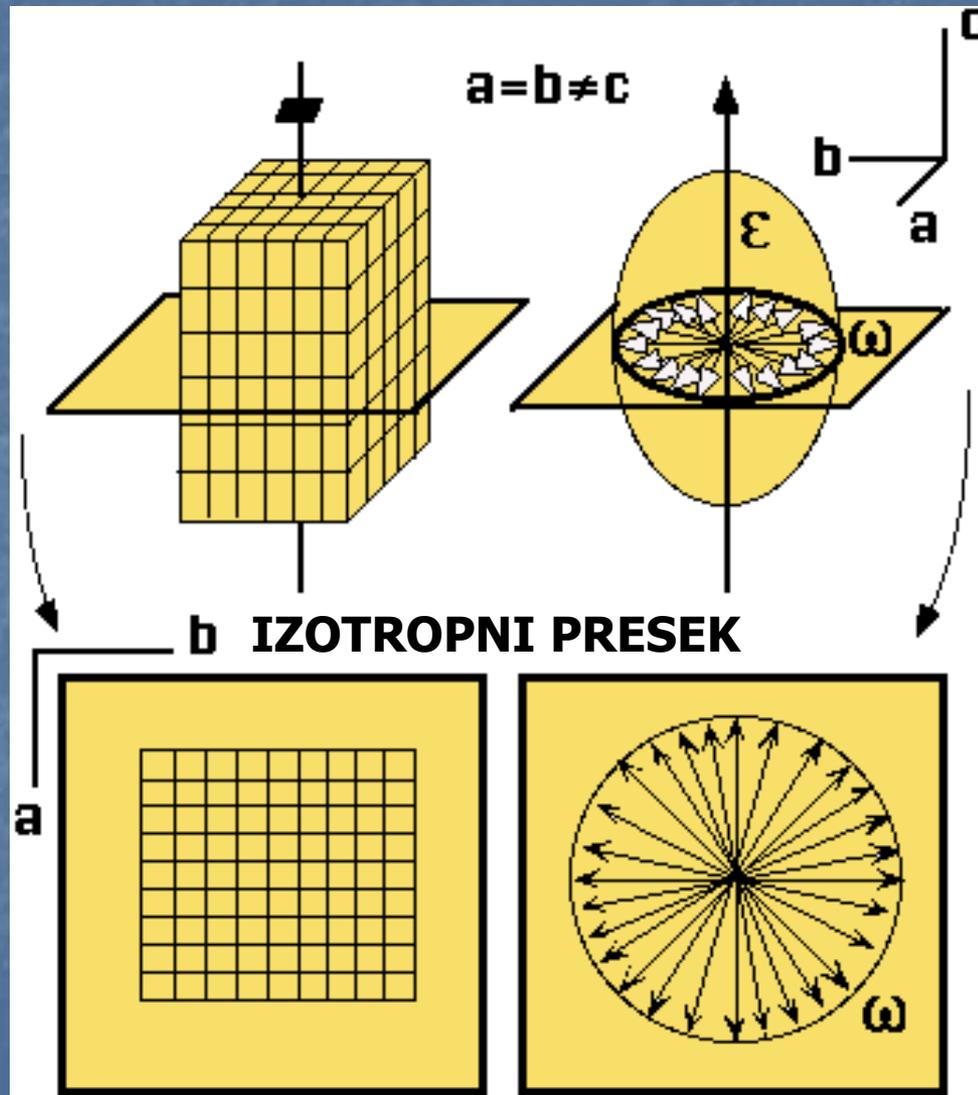
**ENOOSNI**



**DVOOSNI**

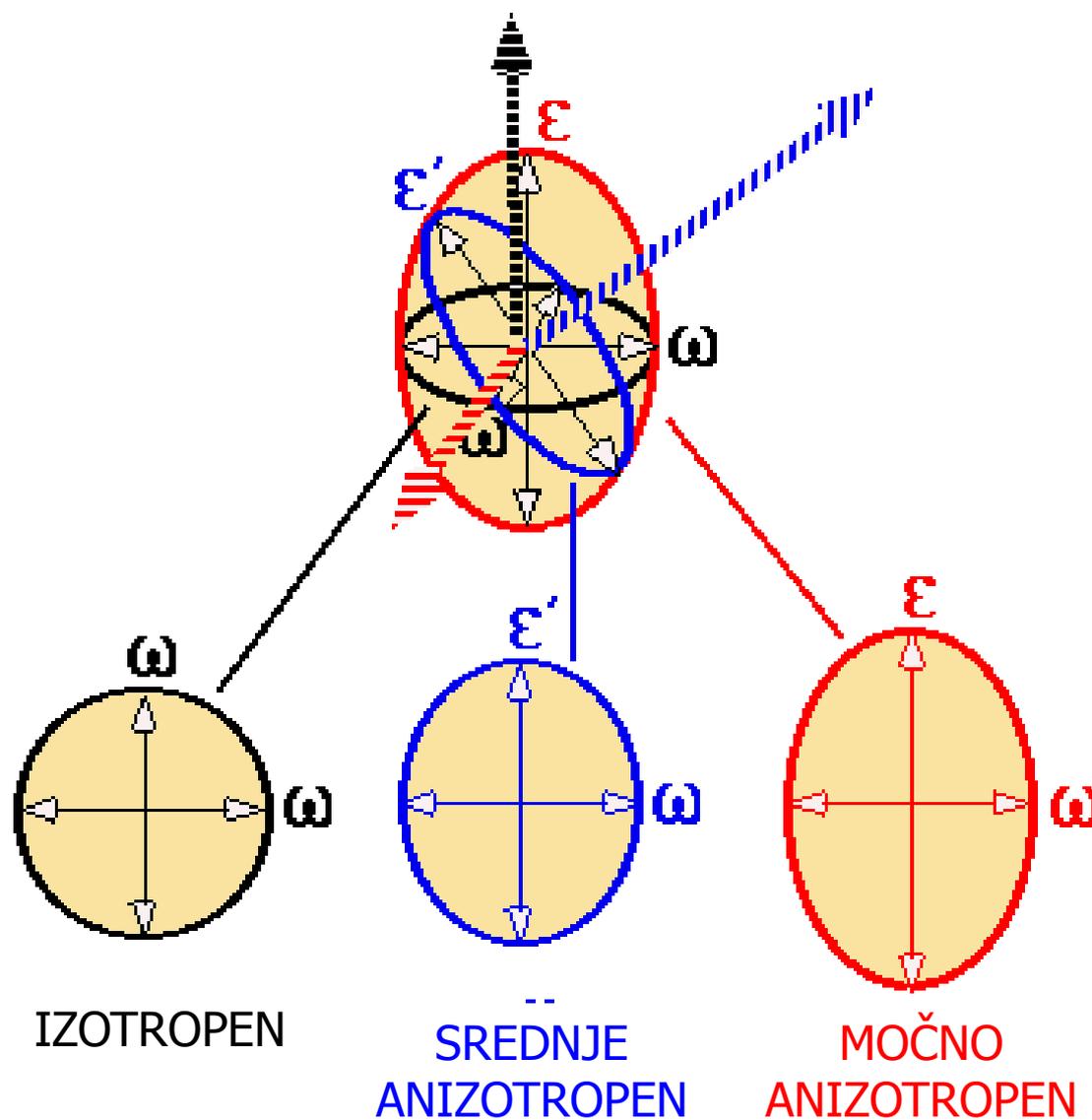


# OPTIČNA OS IN IZOTROPNI PRESEK



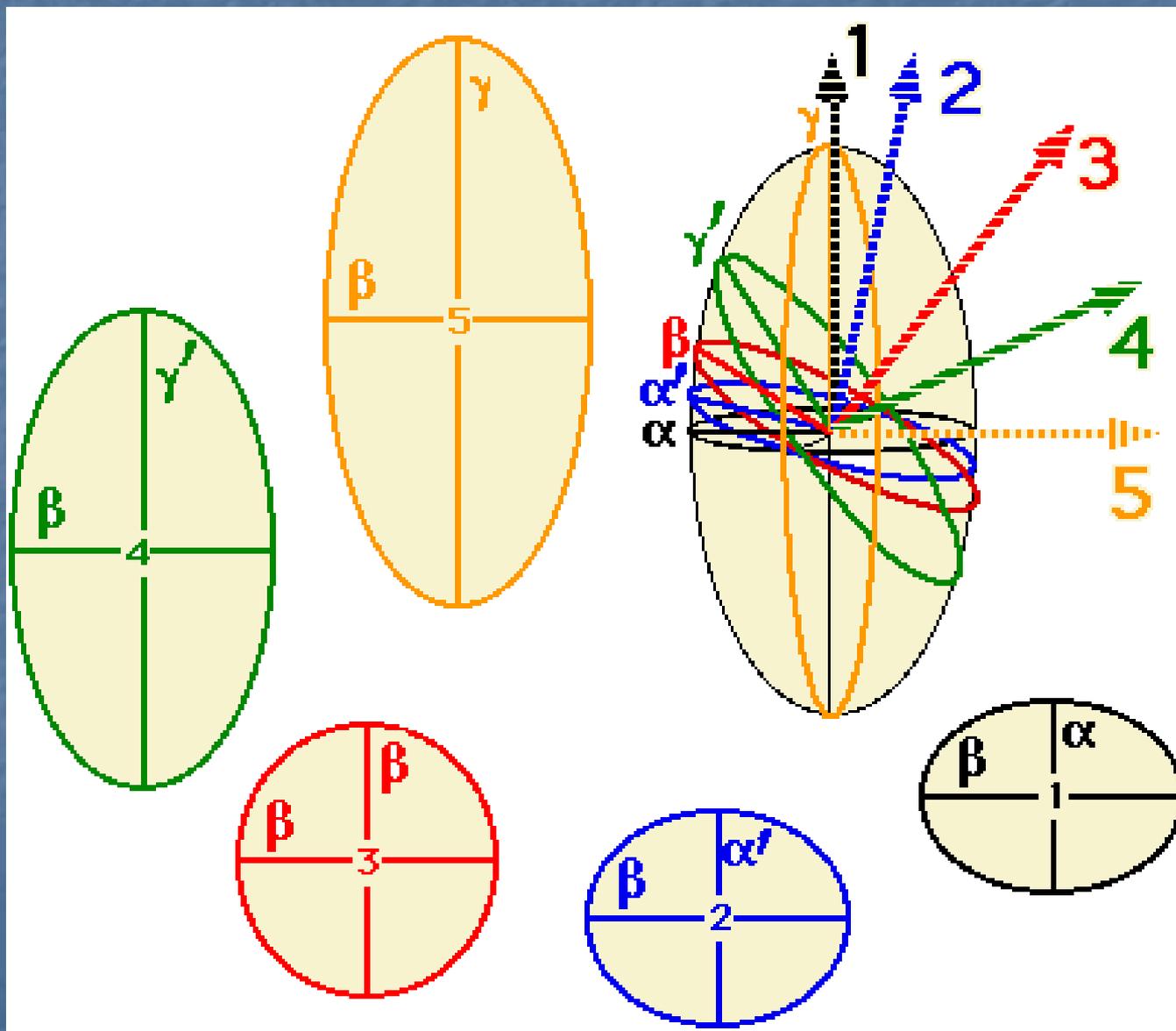
# ENOOSNI ELIPSOID

TRIGONALNI, TETRAGONALNI, HEKSAGONALNI KRISTALI



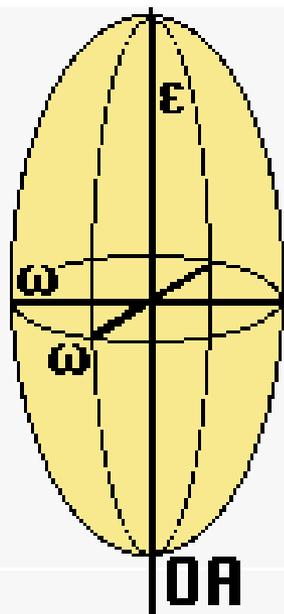
# DVOOSNI ELIPSOID

## TRIKLINSKI, MONOKLINSKI, ORTOROMBSKI KRISTALI

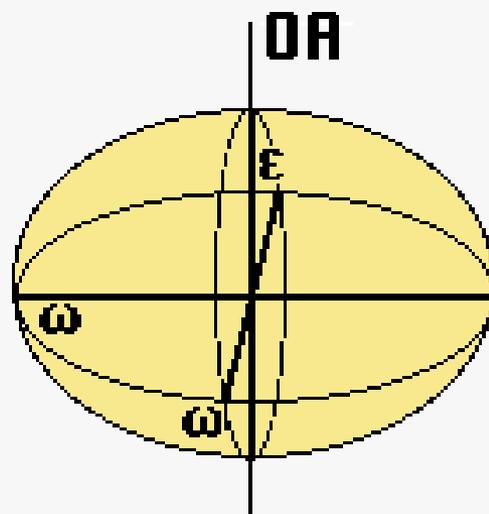


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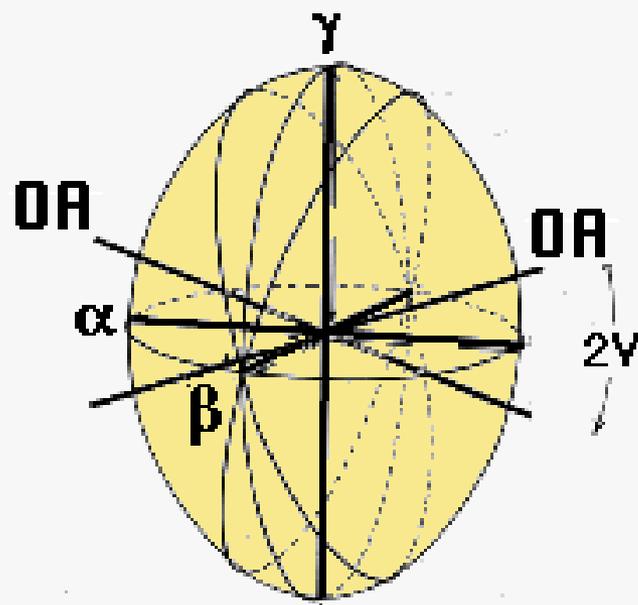
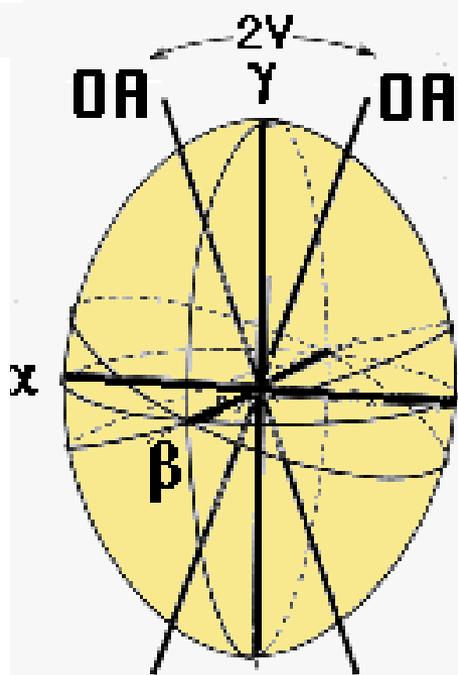
POZITIVNI



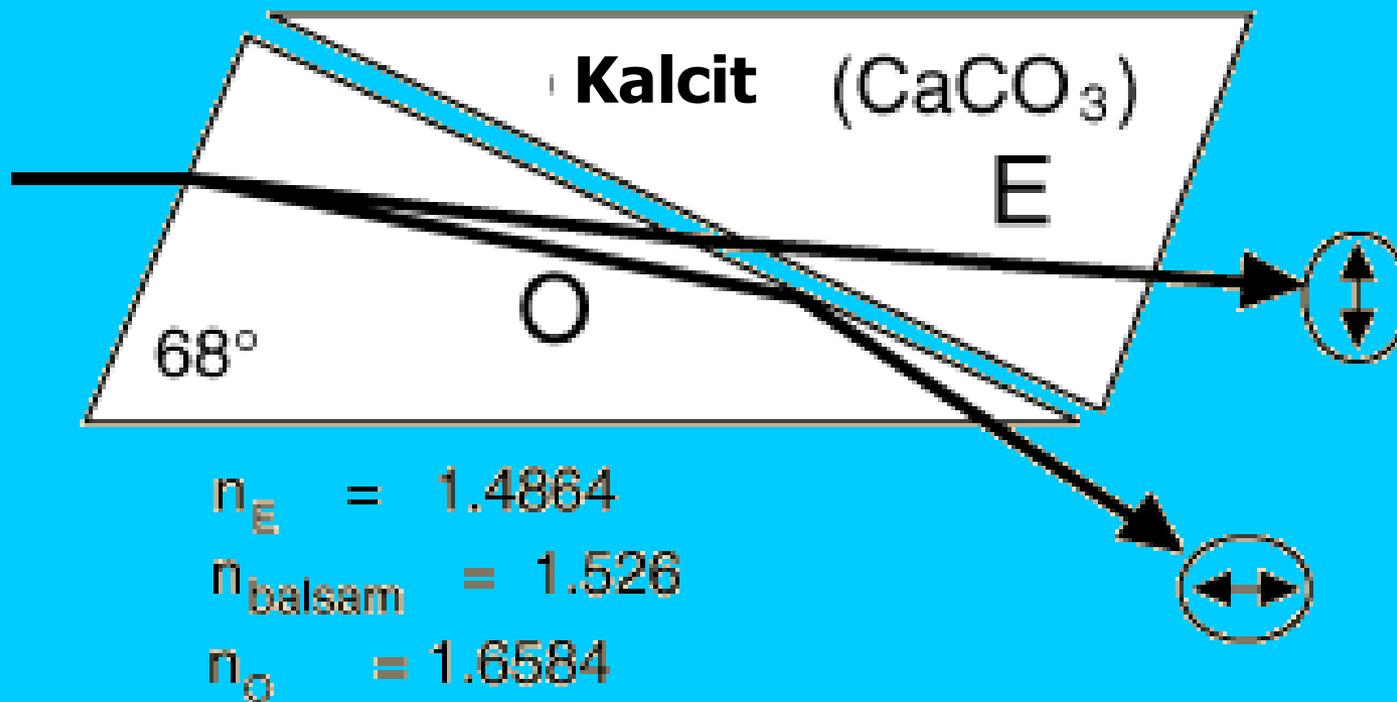
NEGATIVNI



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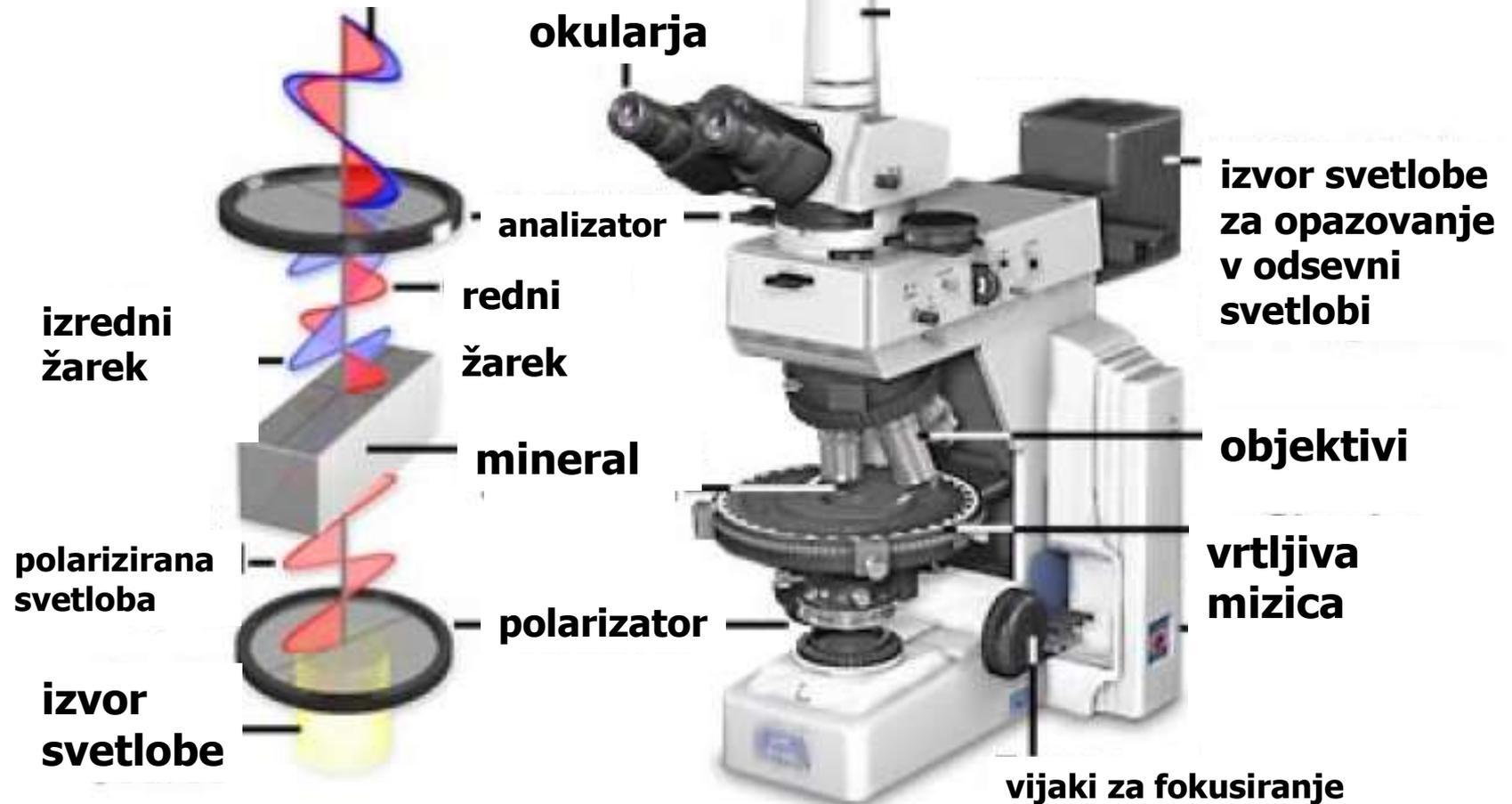


## Polarizacija zaradi dvoloma



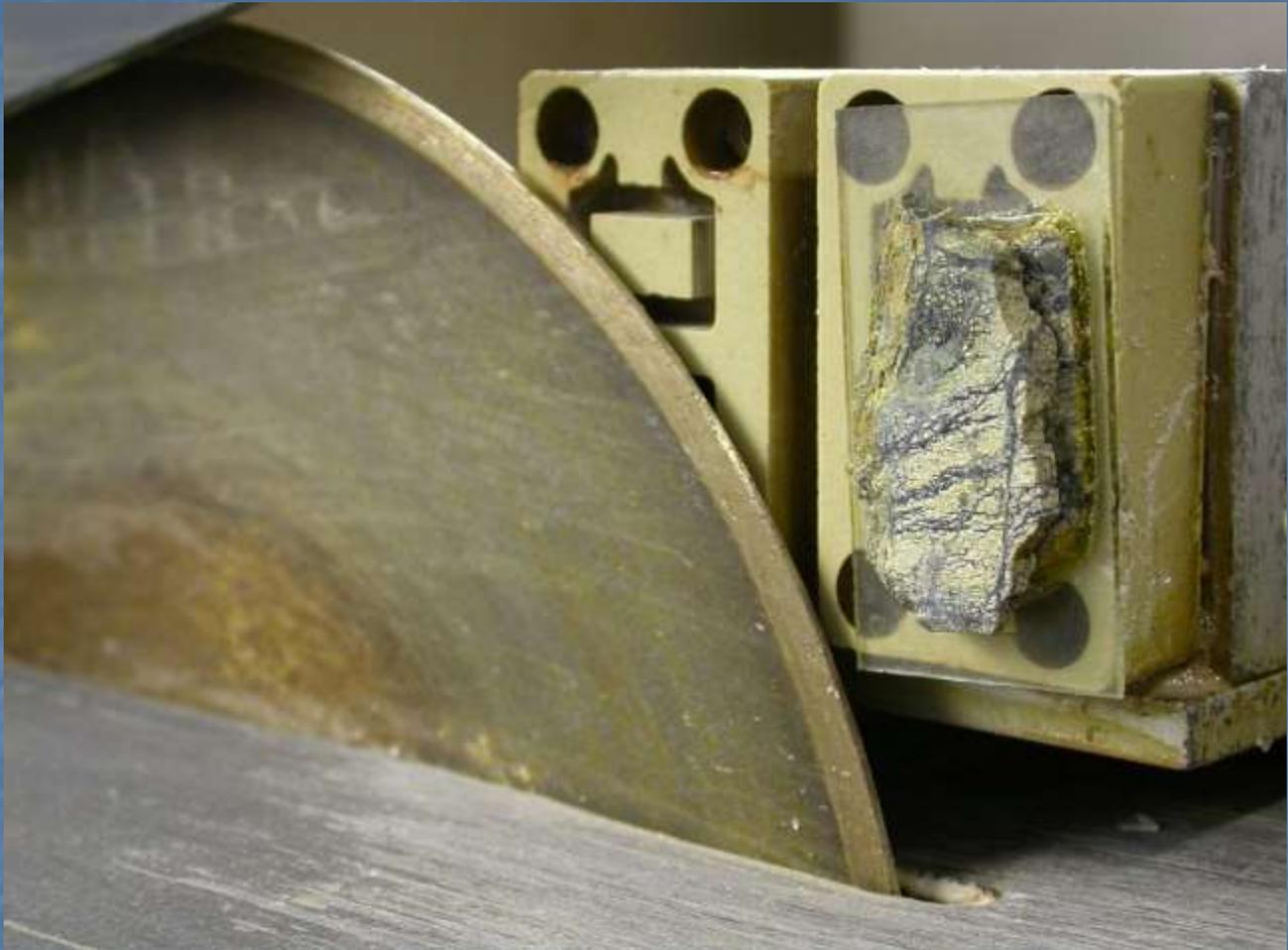
# POLARIZACIJSKI MIKROSKOP

## INTERFERENCA ŽARKOV



# ZBRUSEK





Handwritten symbols on a fragment of clay tablet, including the cuneiform character  $\text{in}$  and arrows pointing upwards.

Handwritten symbols on a fragment of clay tablet, including the cuneiform character  $\text{in}$ , a vertical line with a horizontal bar, and arrows pointing in various directions.

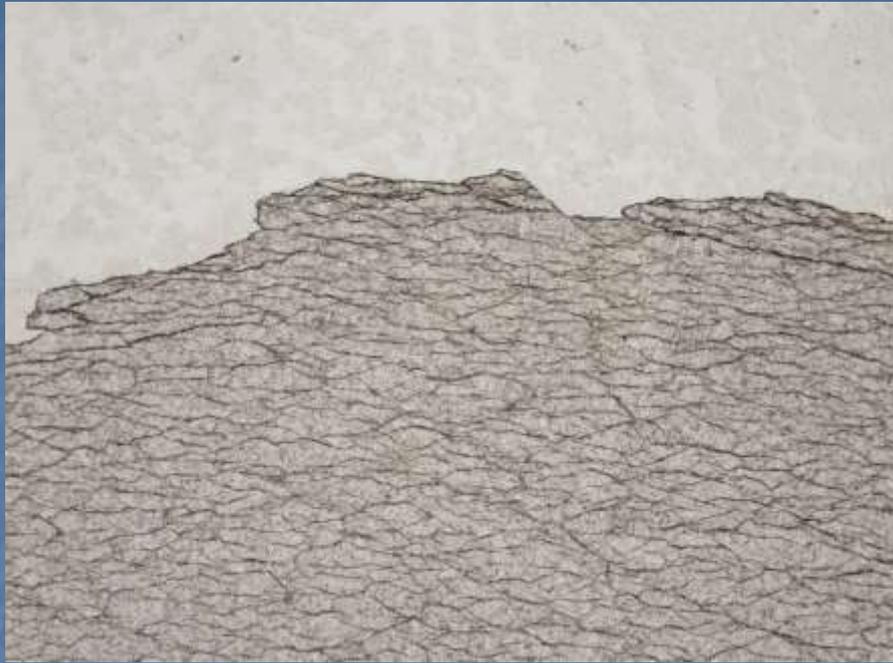
Handwritten symbols on a fragment of clay tablet, including the cuneiform character  $\text{in}$  and the number 20. The fragment is labeled with "20a" in black ink and "20a" in red ink.

Handwritten symbols on a fragment of clay tablet, including the cuneiform character  $\text{in}$  and the number 902. The fragment is labeled with "902" in black ink and "902" in red ink.



# RELIEF IN BECKE-JEVA ČRTA

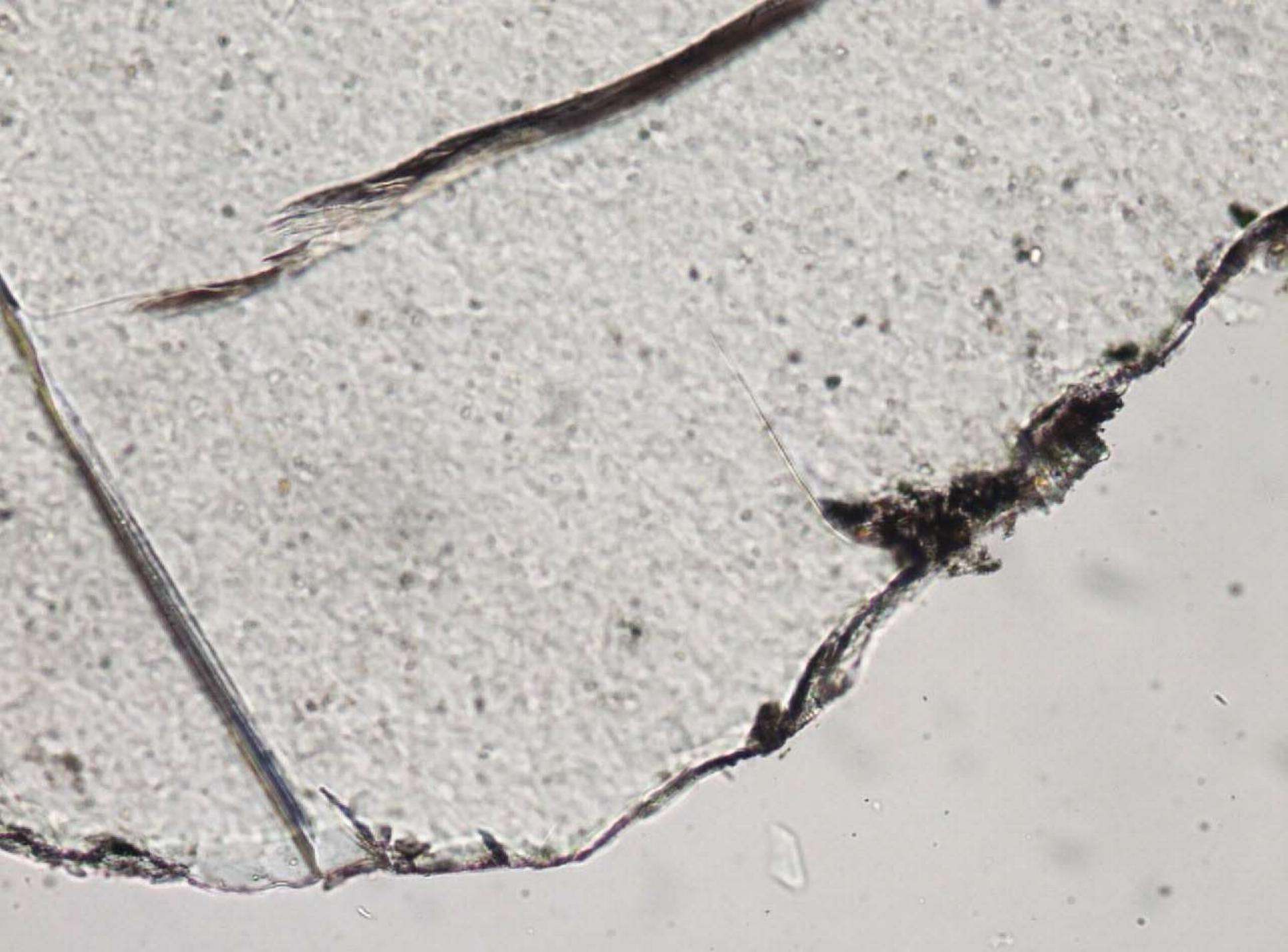




**visok relief**

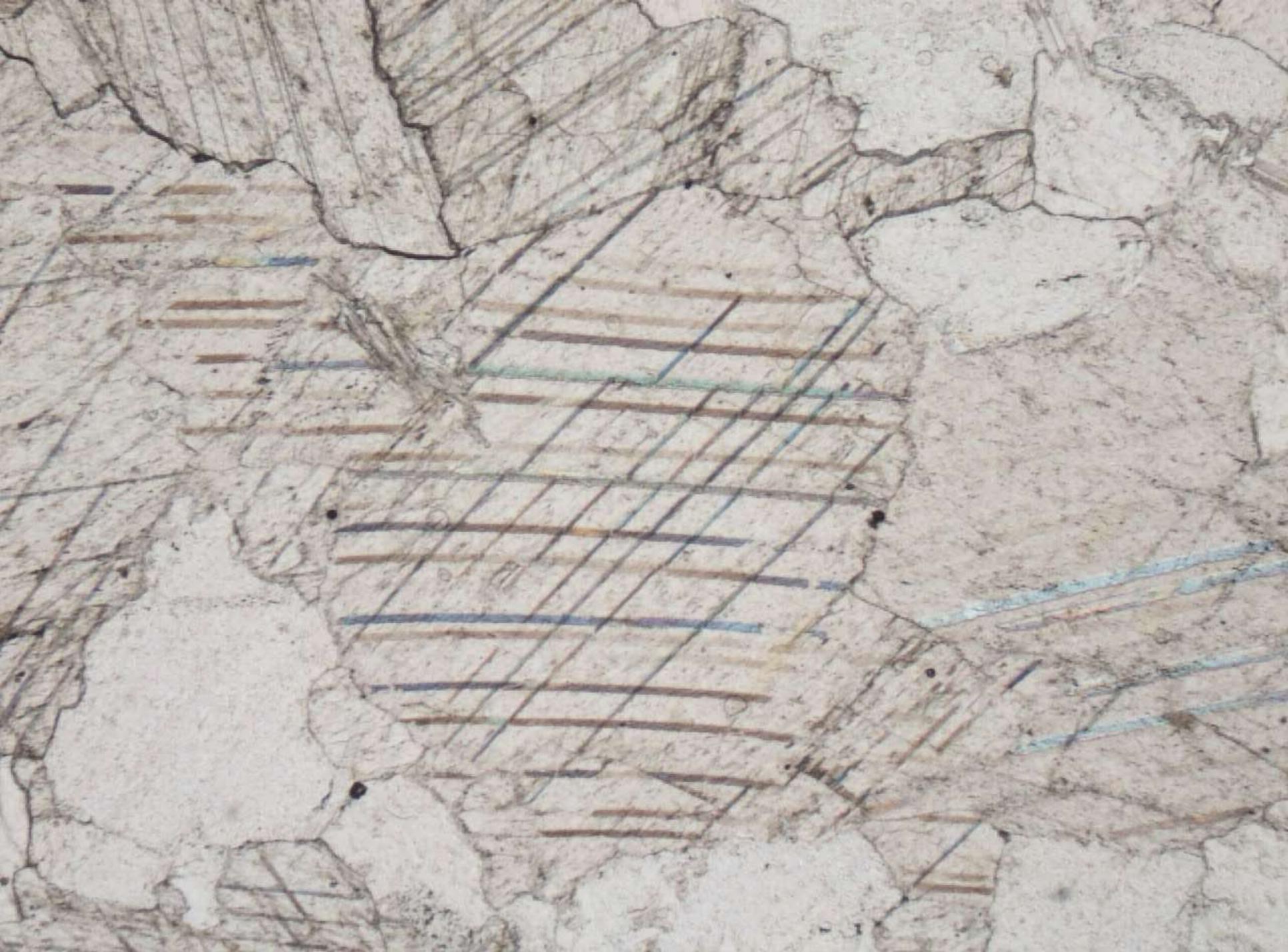


**nizek relief**



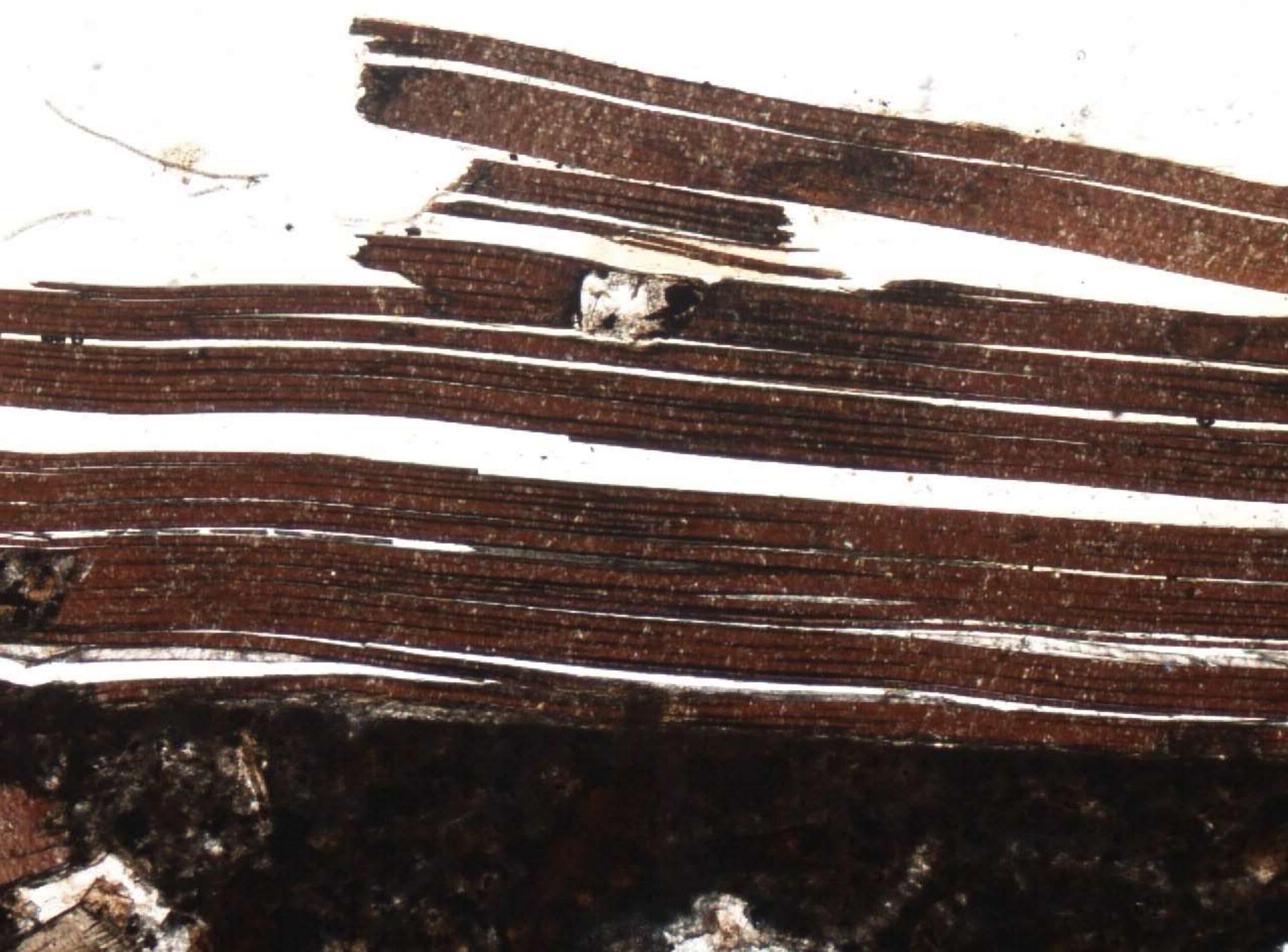




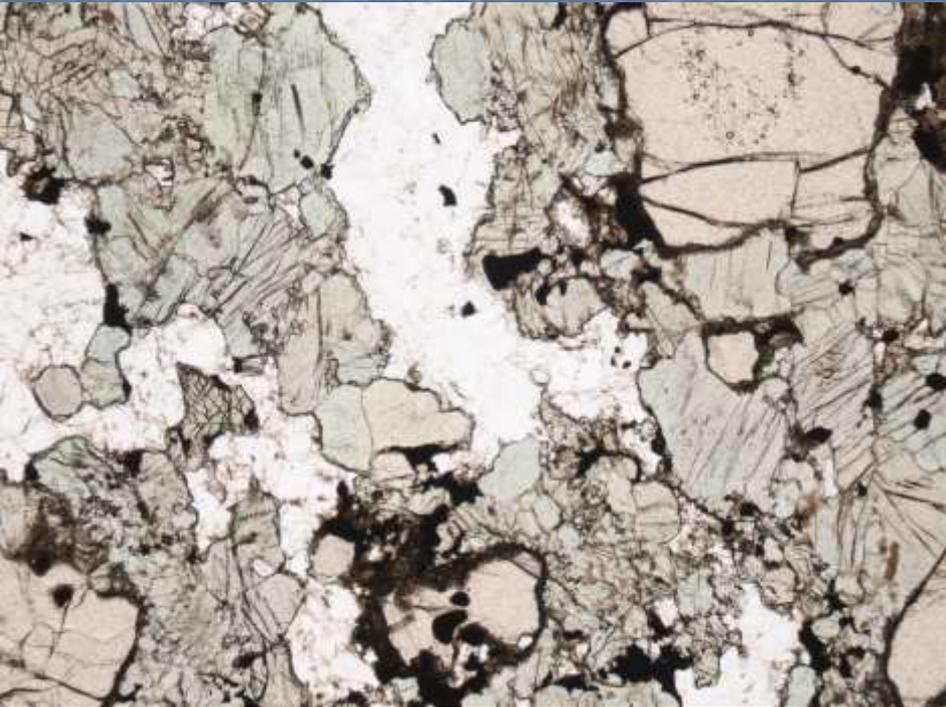


# PLEOHROIZEM

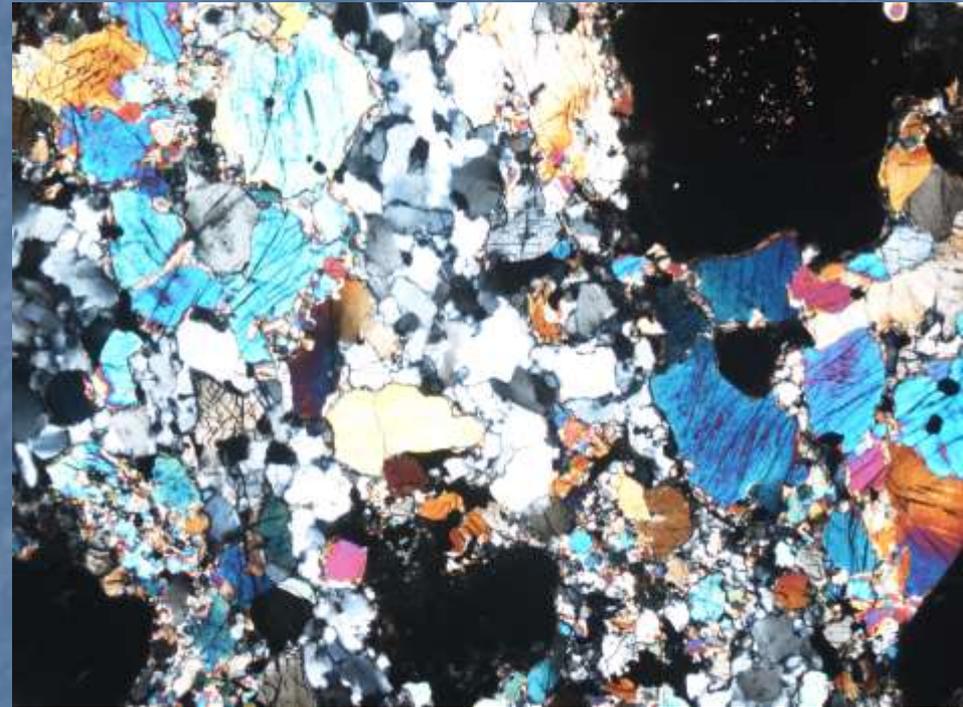




# INTERFERENČNE BARVE



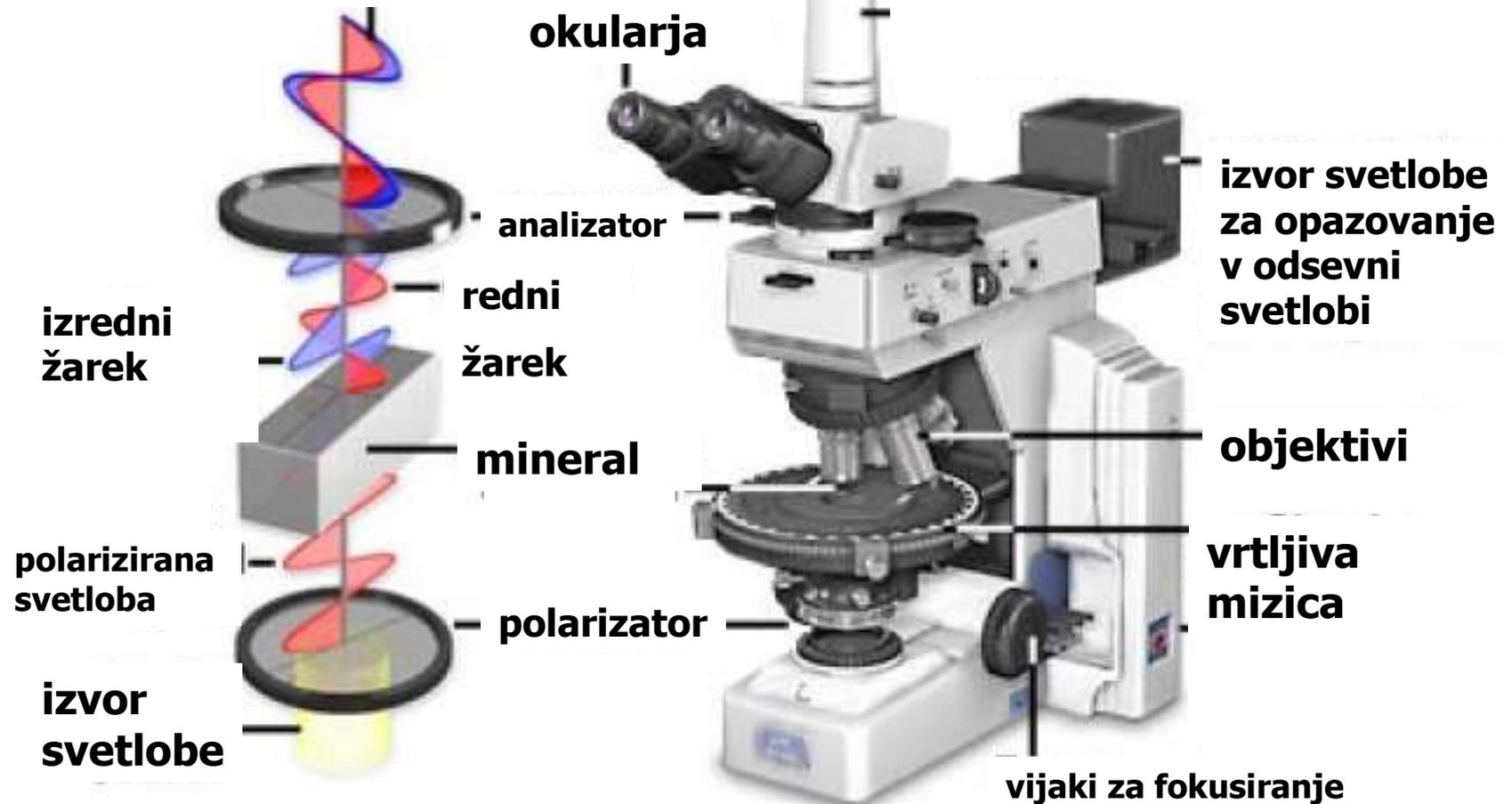
brez vključenega analizatorja



z vključenim analizatorjem

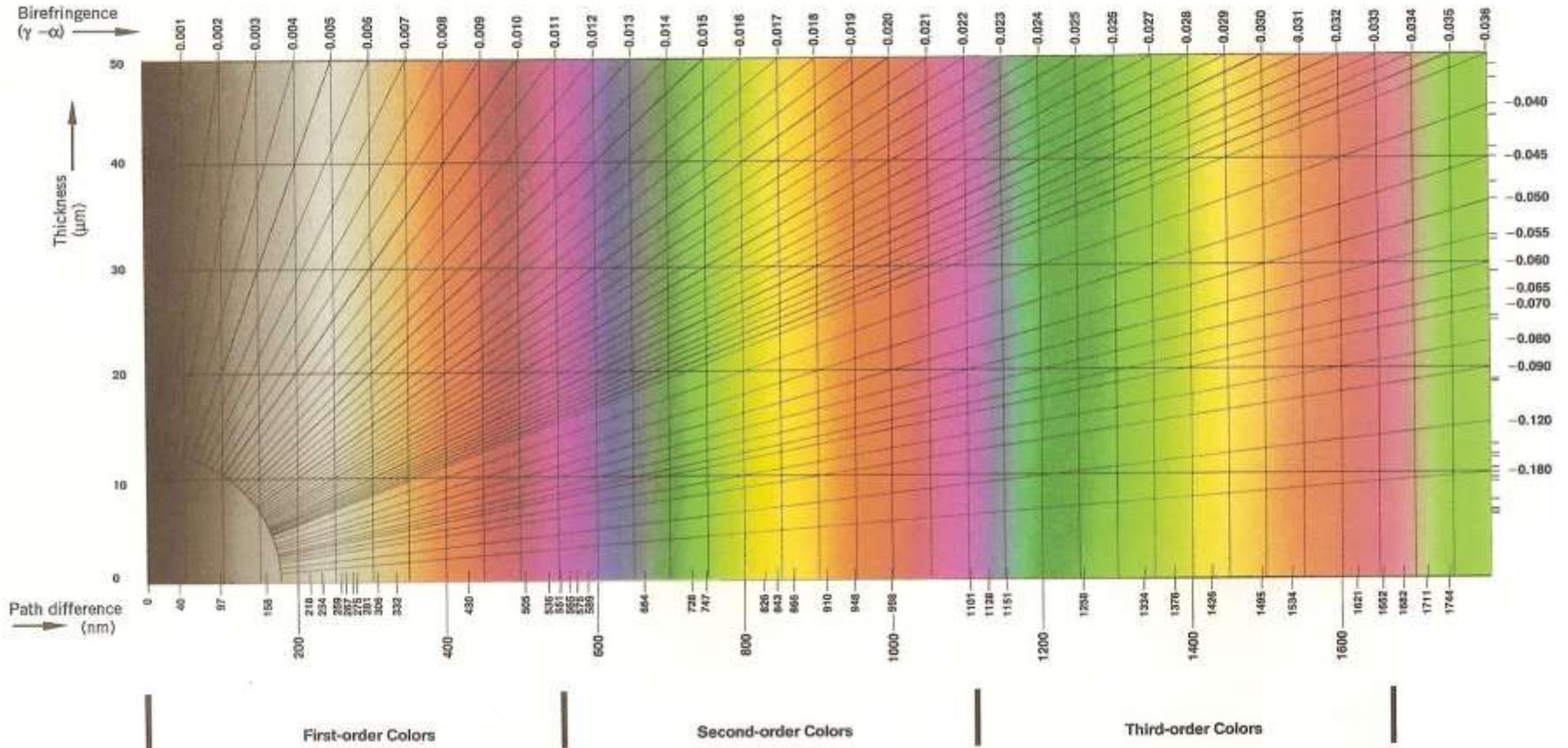
# POLARIZACIJSKI MIKROSKOP

## INTERFERENCA ŽARKOV

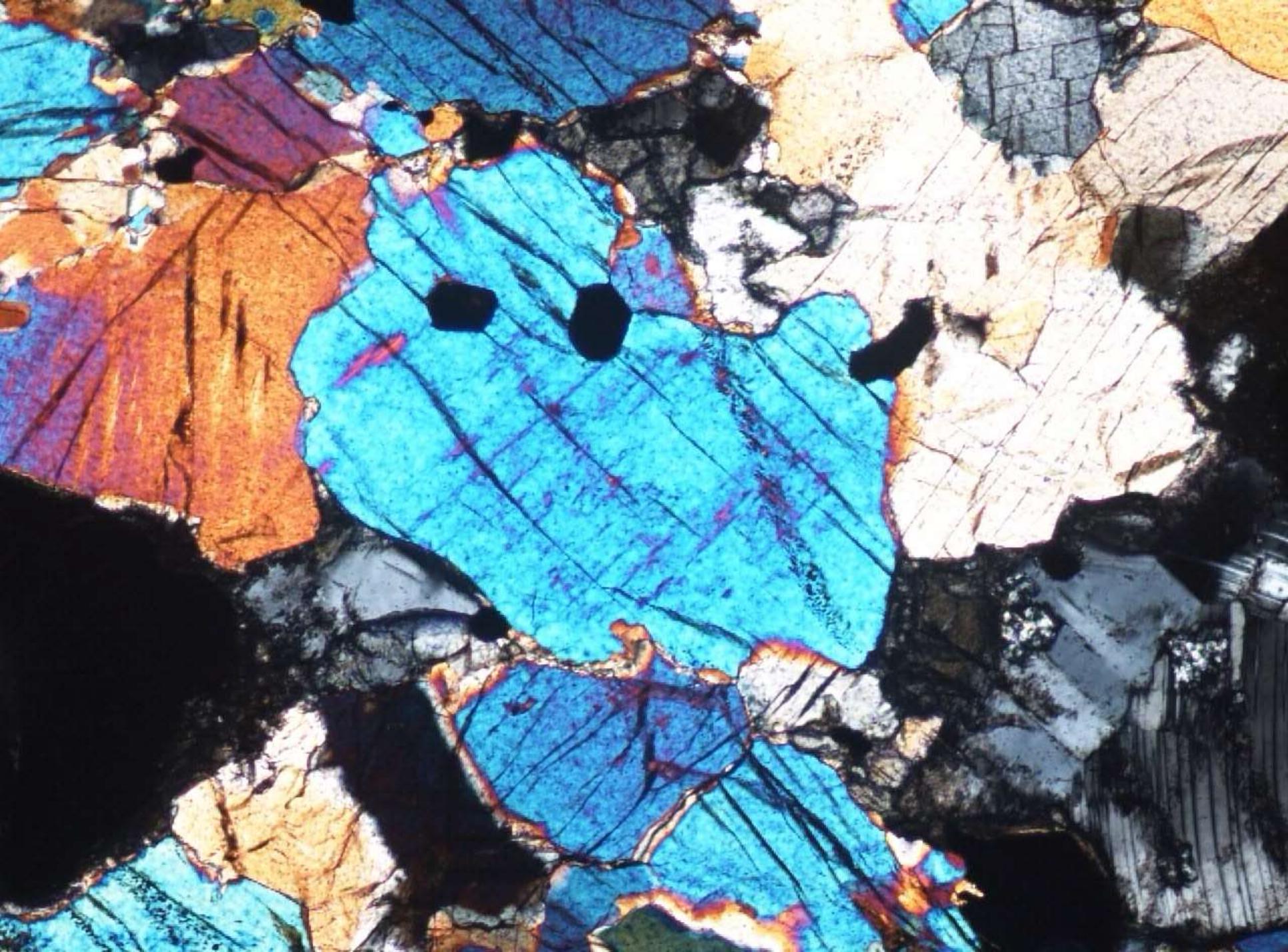


# Interference Color Chart

(compare with Fig. 8.15)



$$\Delta = d (n_g - n_p)$$



# Kompenzator

- kremenov klin

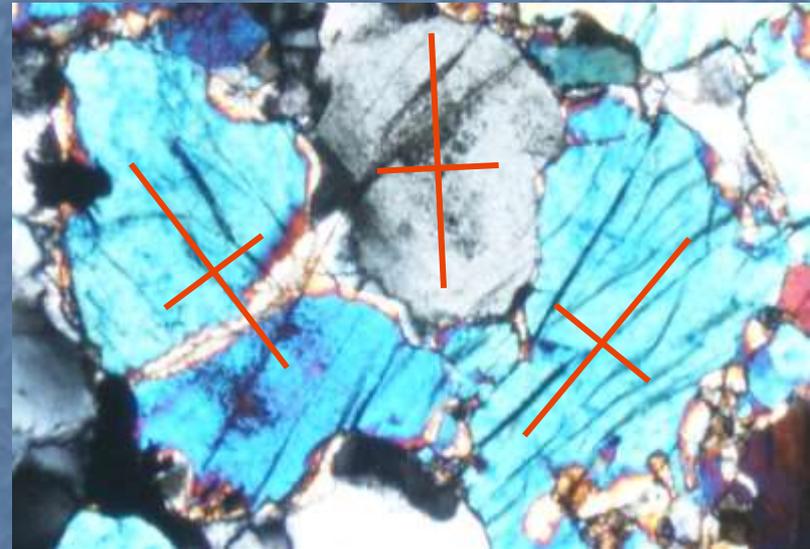
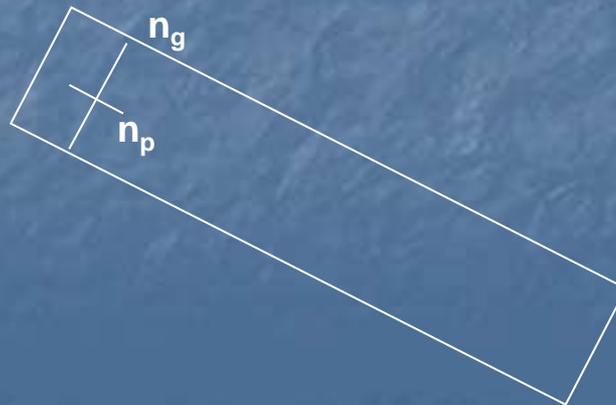
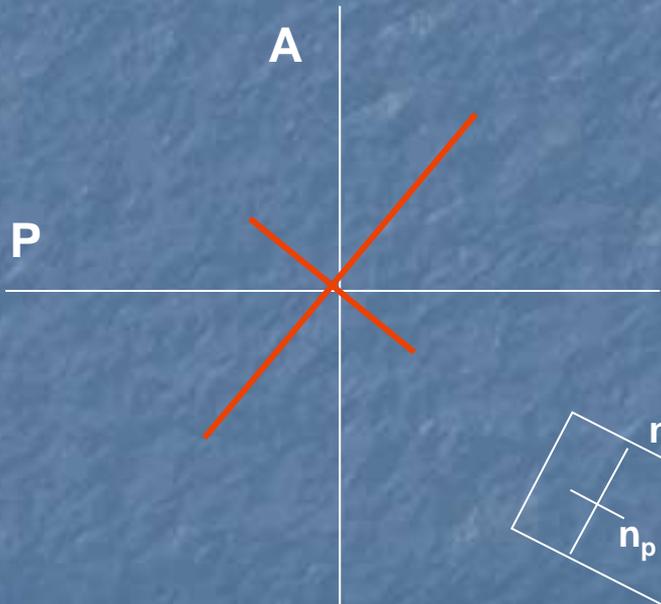
do  $3\lambda$

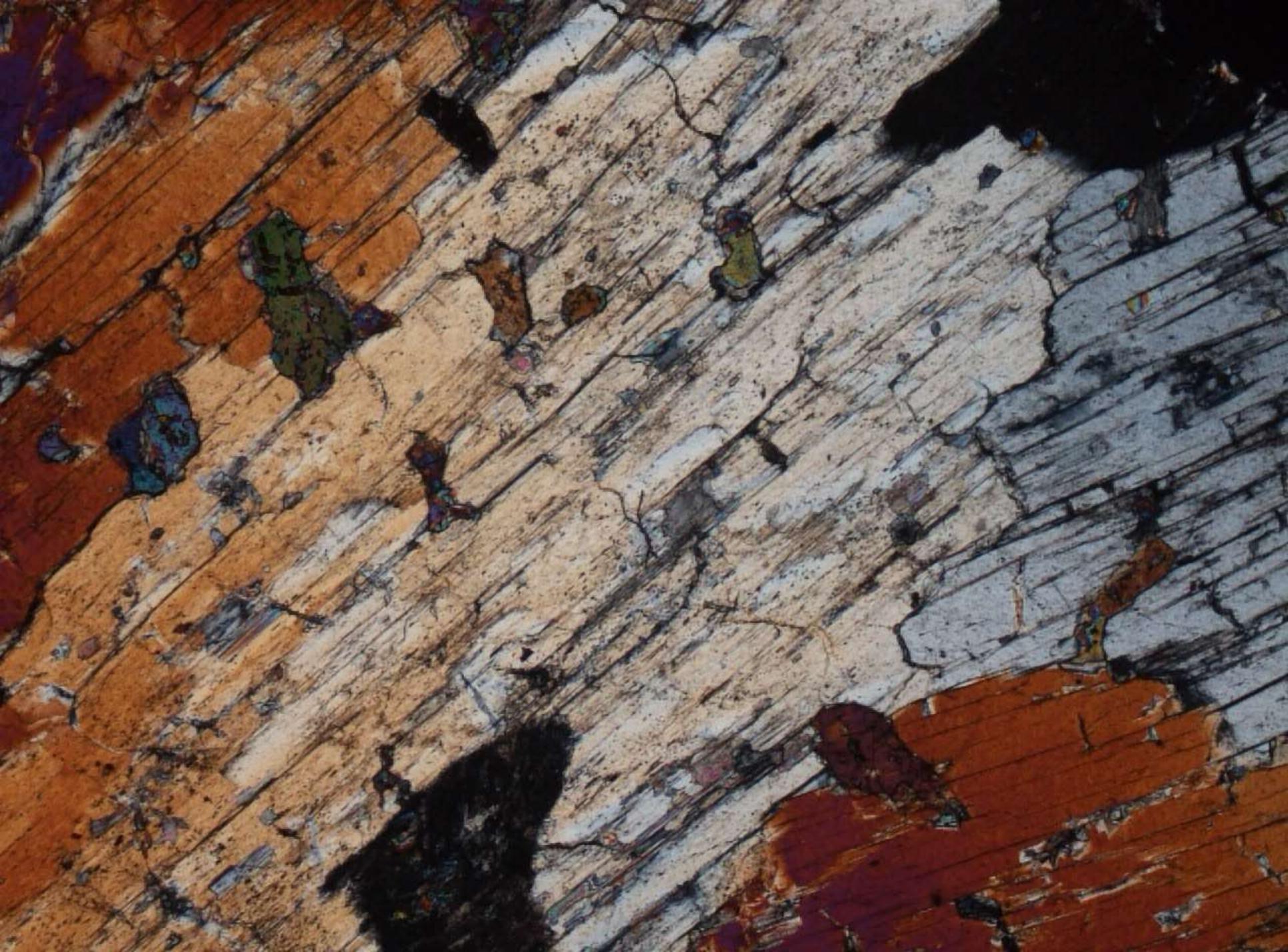
- sadrina ploščica

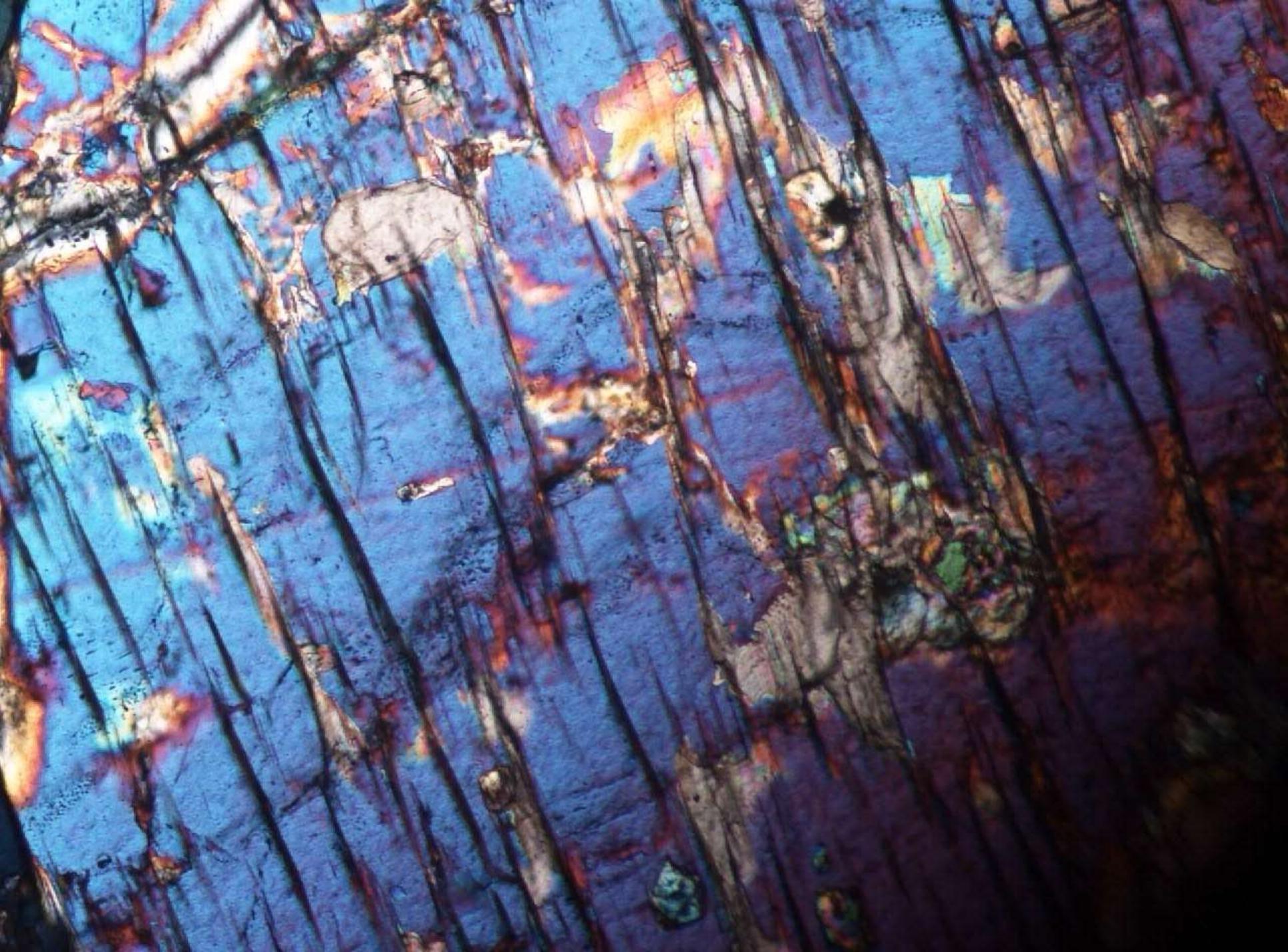
$\lambda$

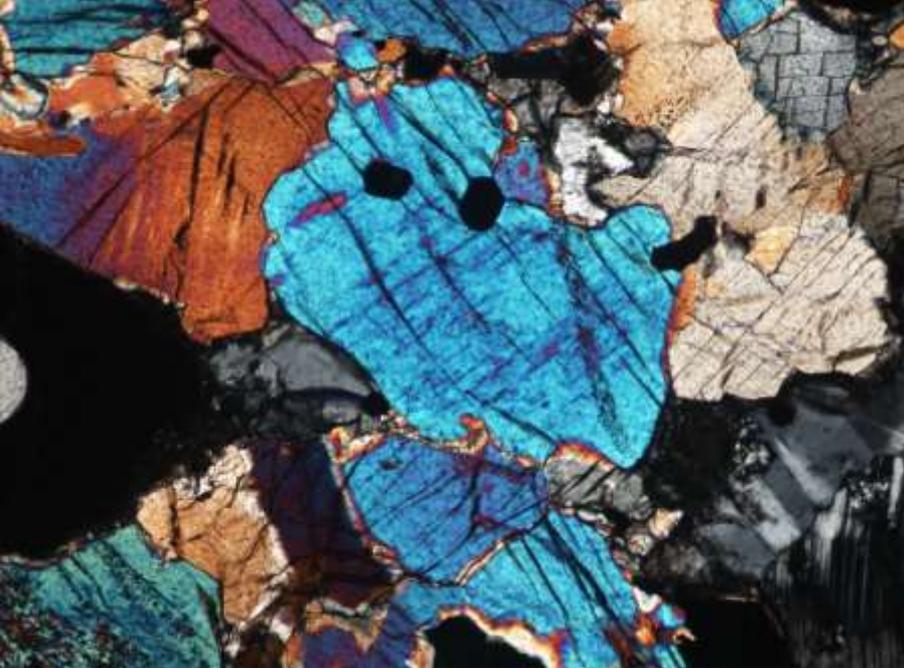
- sljudina ploščica

$1/4 \lambda$

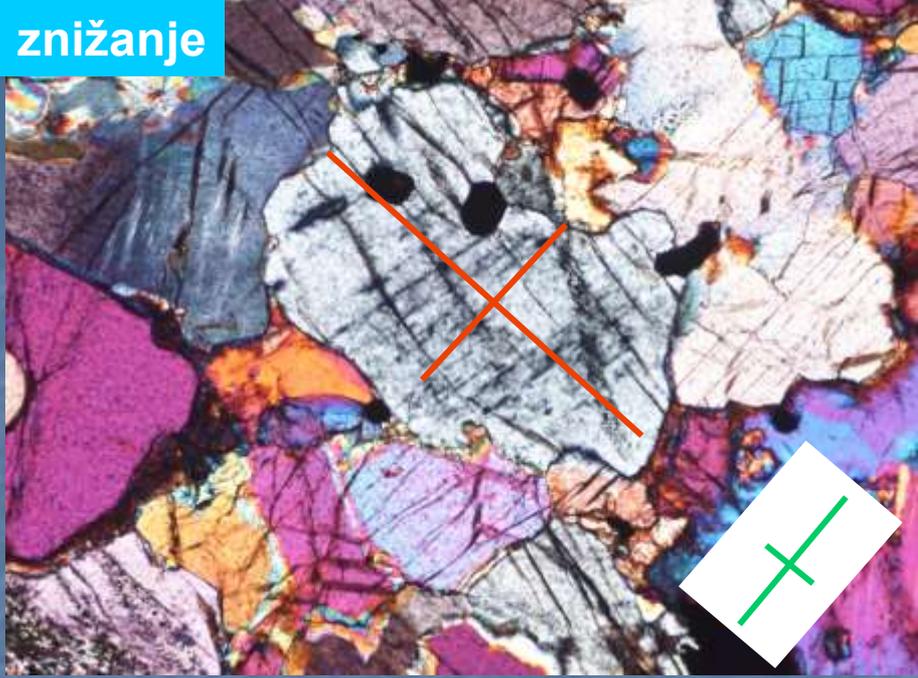




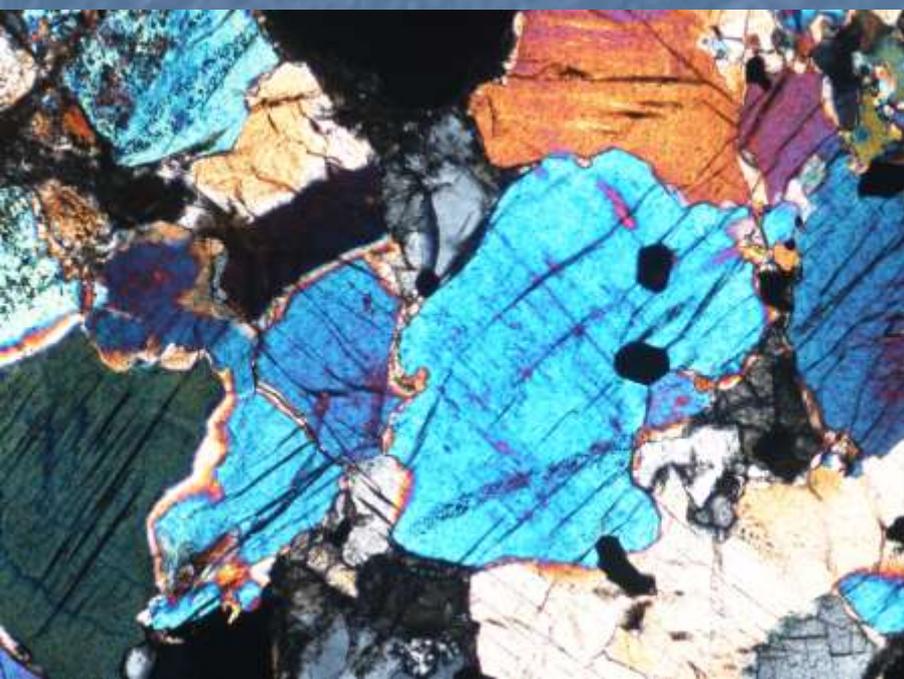




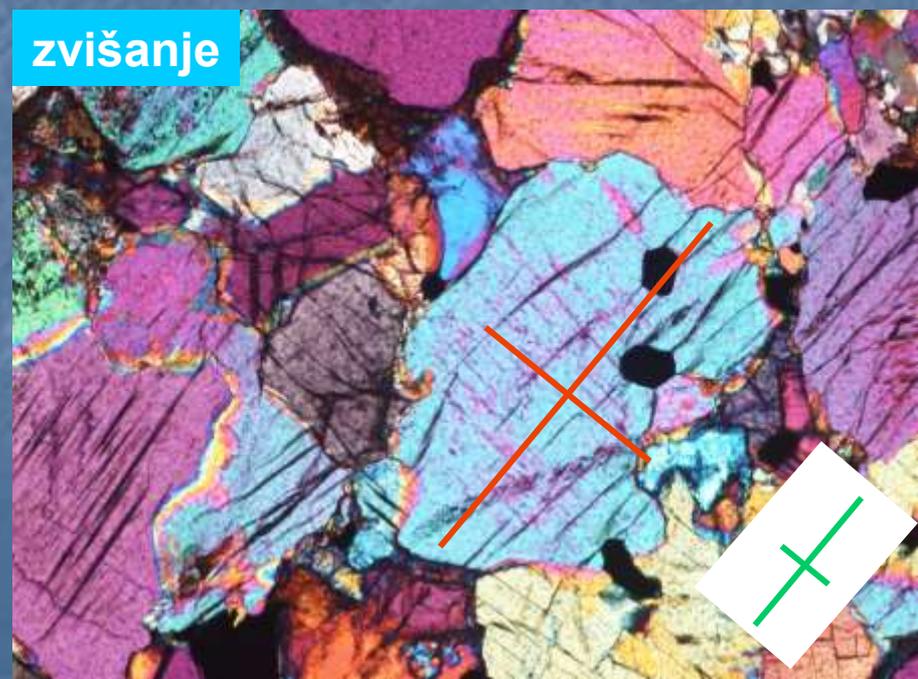
znižanje



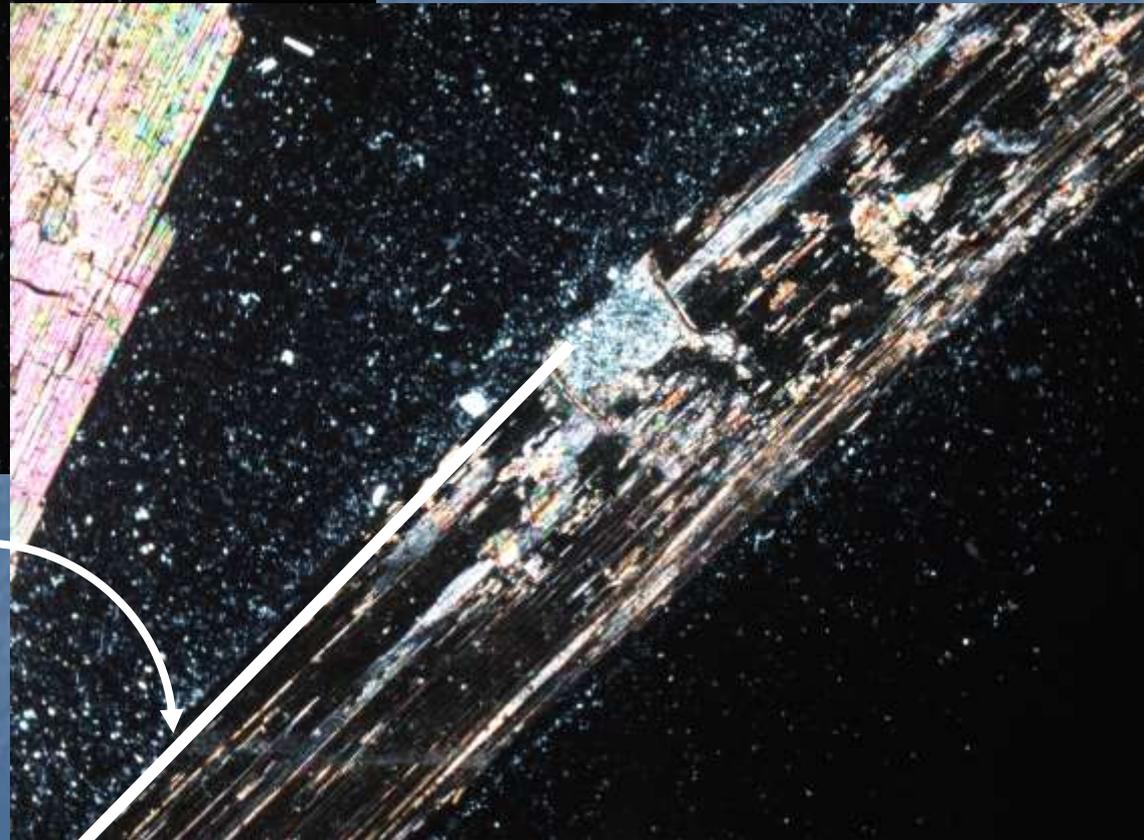
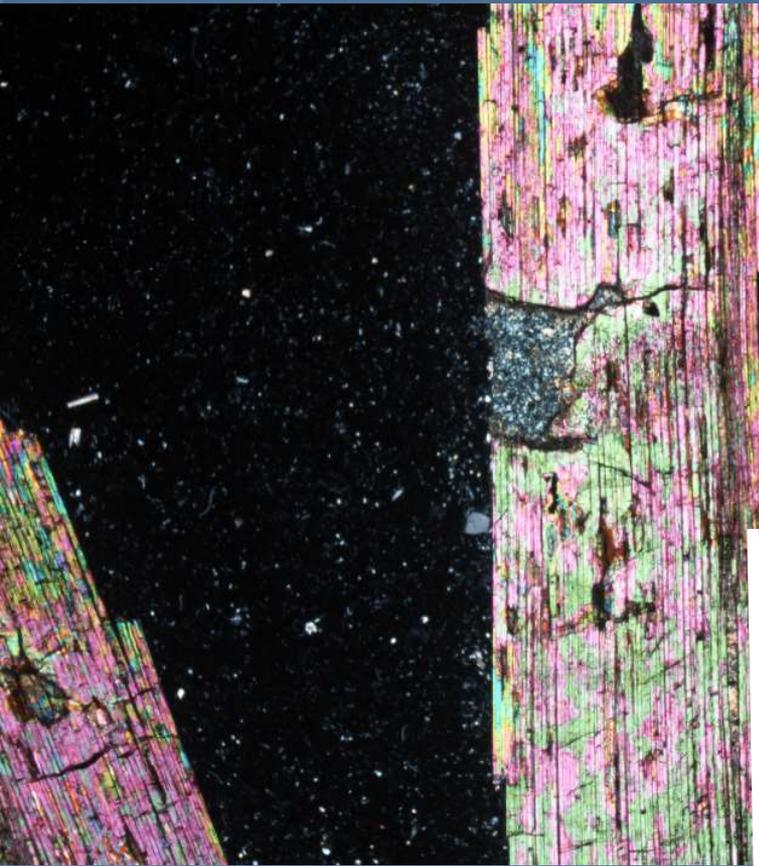
sadrina ploščica



zvišanje

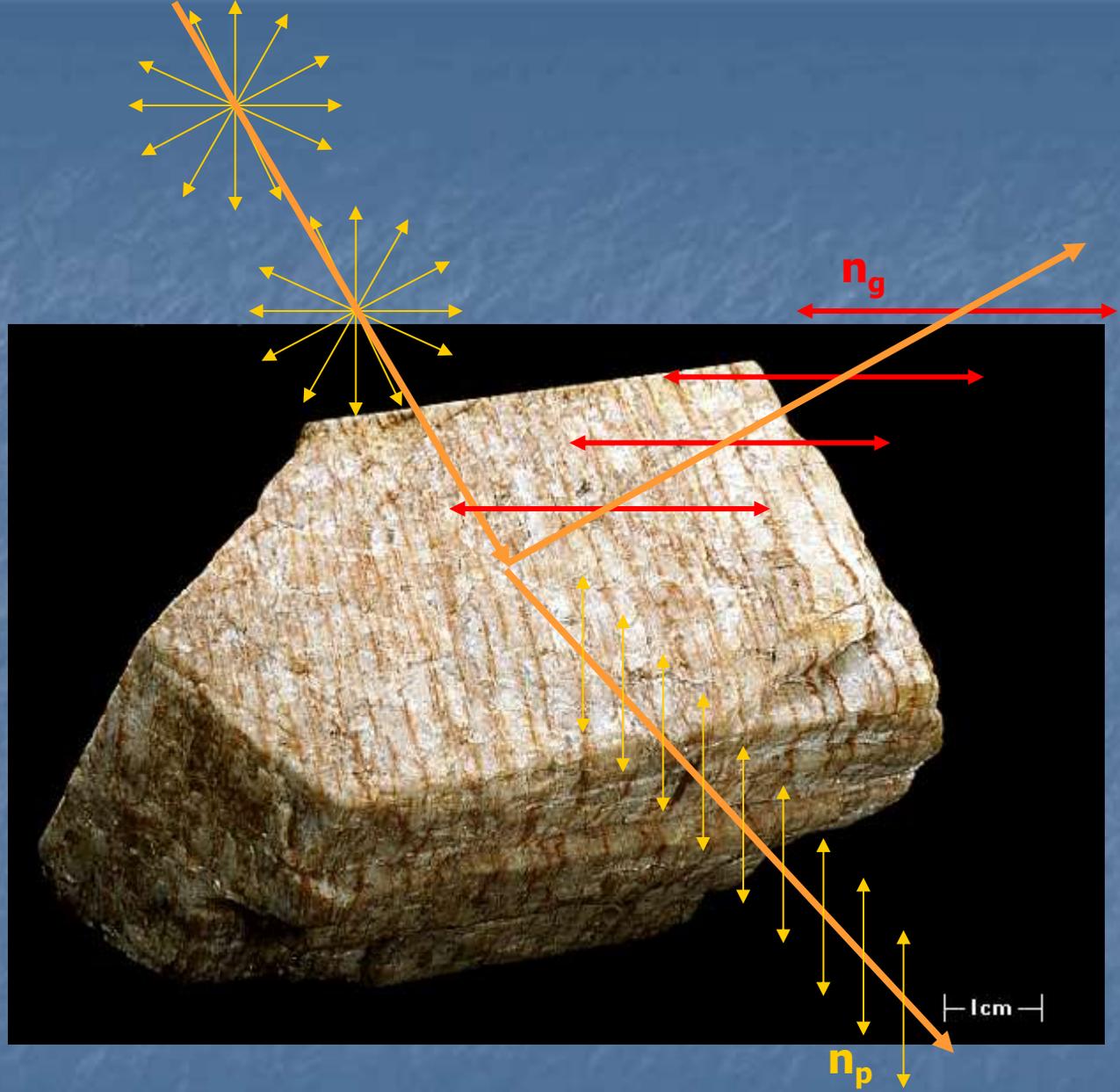
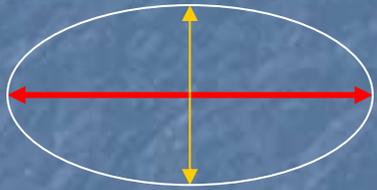






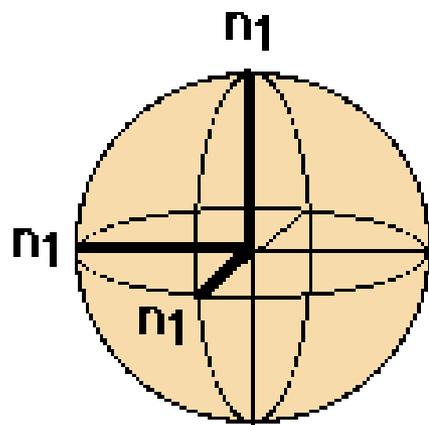
# Optična kristalografija

- lomni količnik
- dvolom
- optična indikatrisa
- polarizacijski mikroskop
- relief
- becke-jeva črta
- psevdoabsorbpcija
- psevdohroizem
- pleohroizem
- interferenčne barve
- optična orientacija zrn
- kot potemnitve

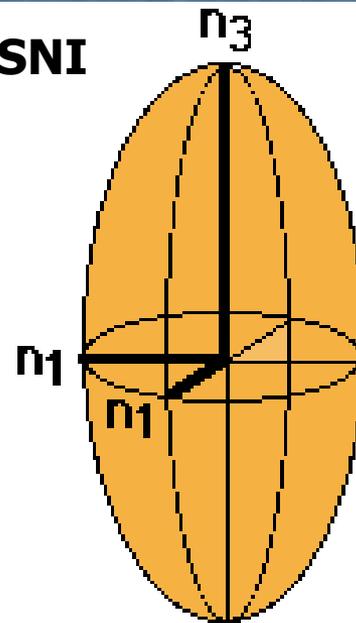


# VRSTE OPTIČNIH INDIKATRIS

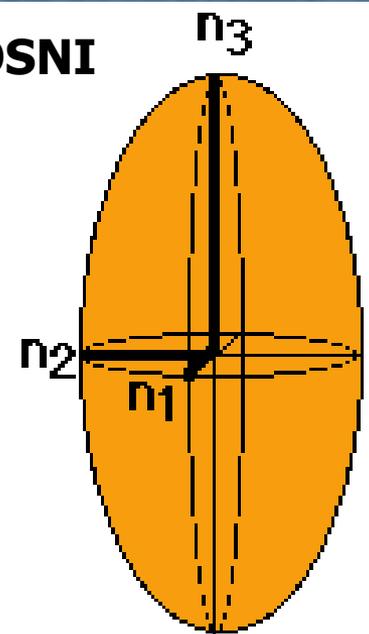
**IZOTROPNI**



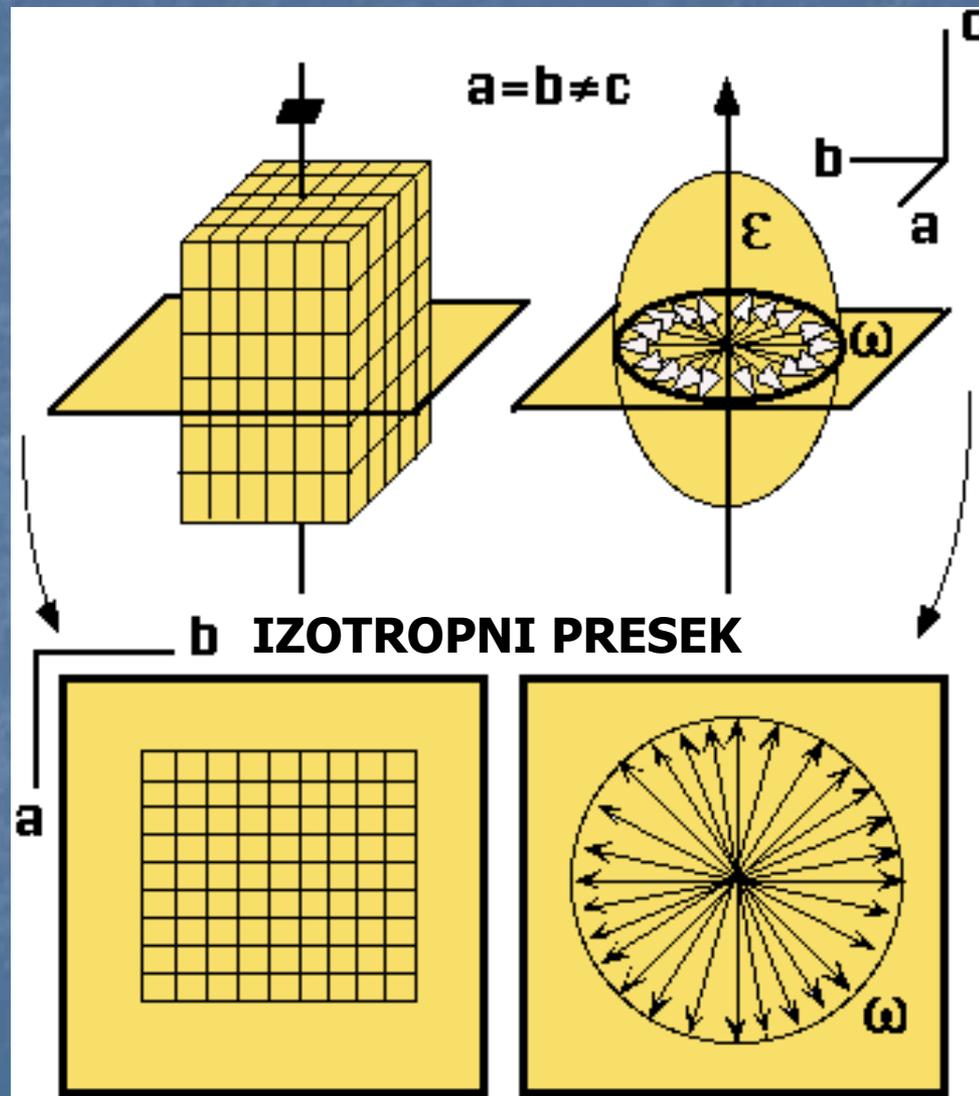
**ENOOSNI**



**DVOOSNI**

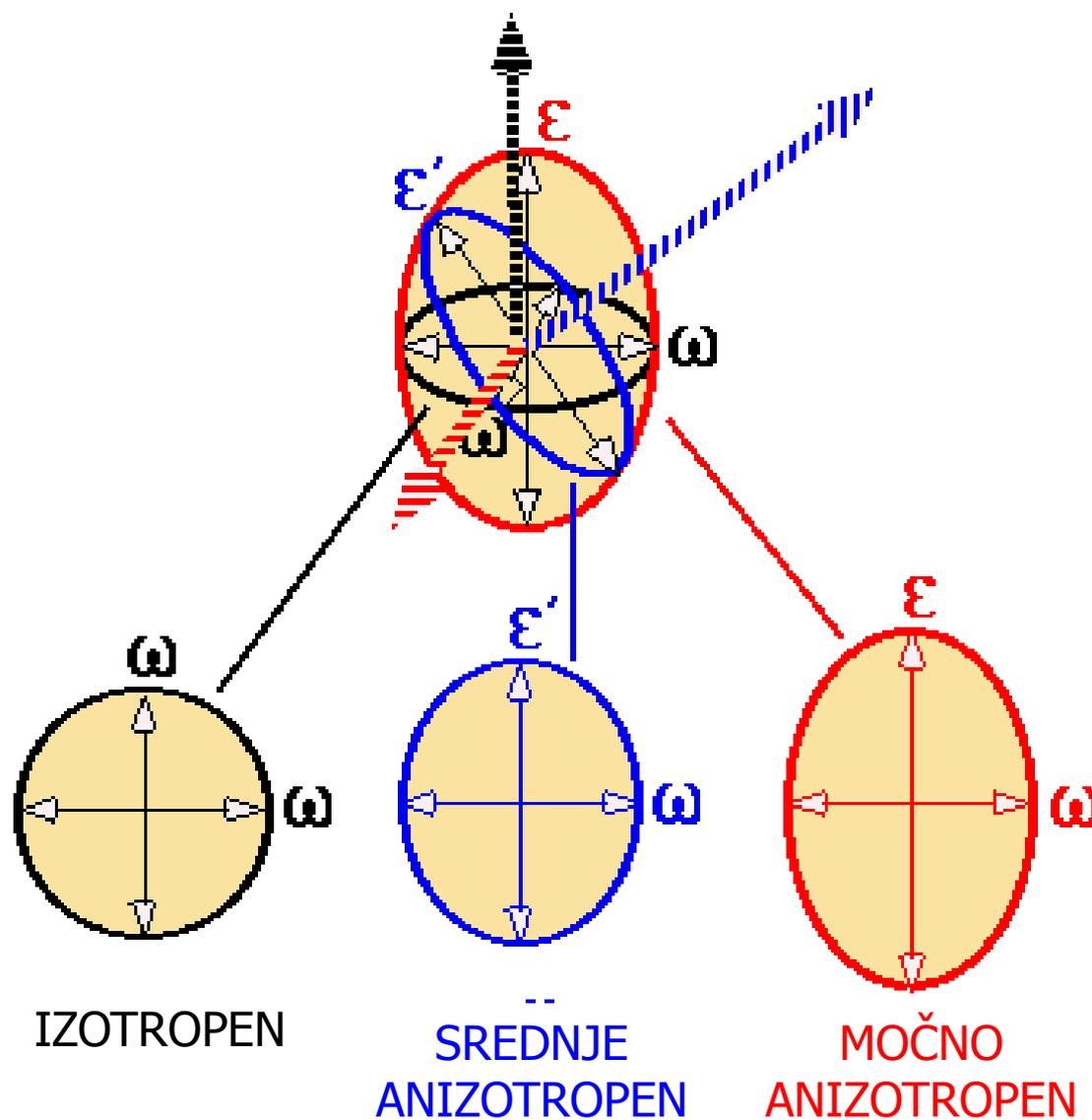


# OPTIČNA OS IN IZOTROPNI PRESEK



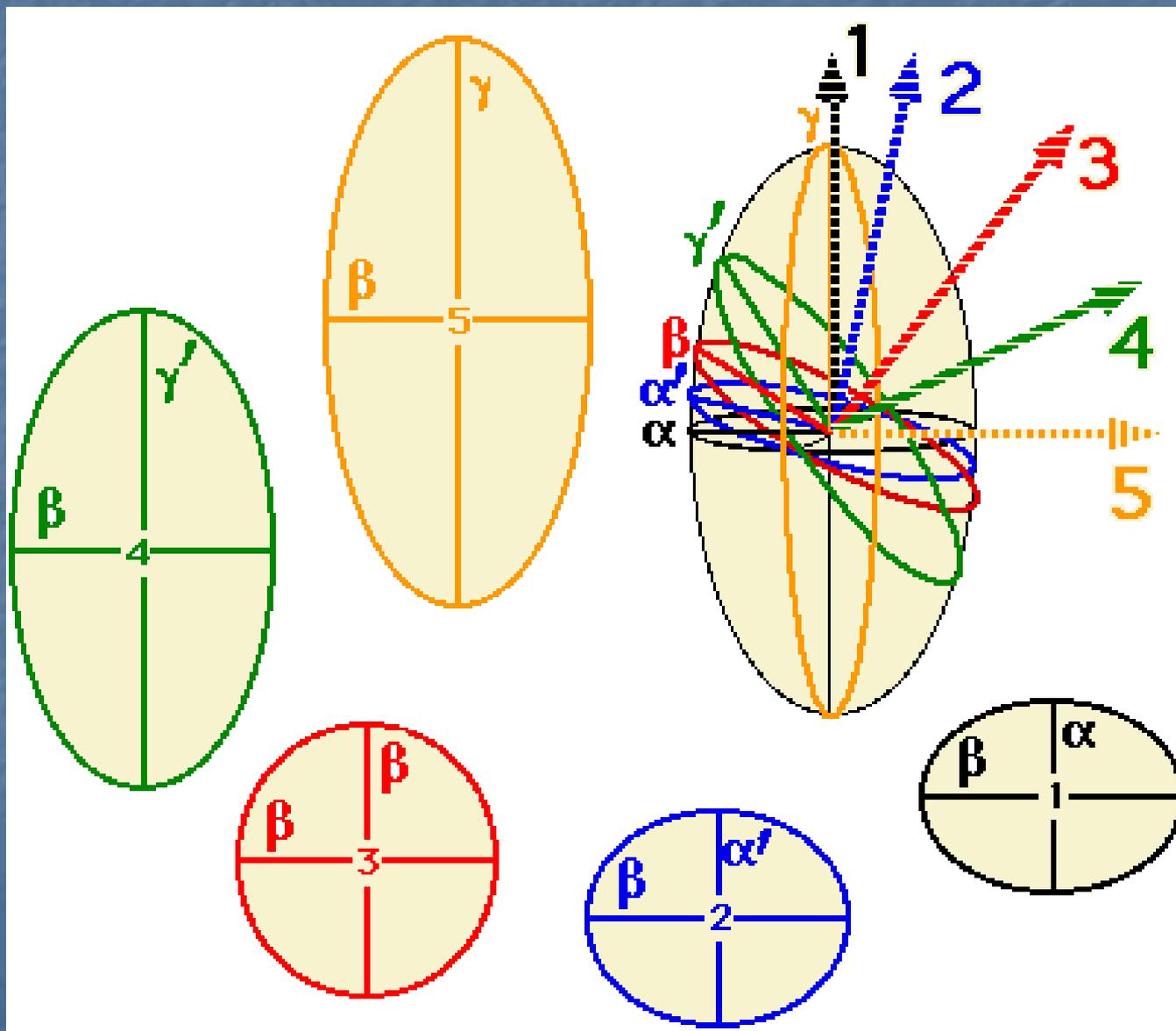
# ENOOSNI ELIPSOID

TRIGONALNI, TETRAGONALNI, HEKSAGONALNI KRISTALI



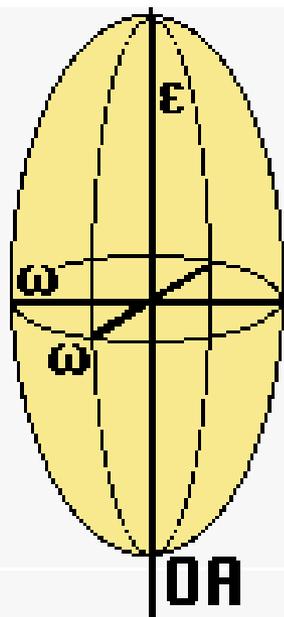
# DVOOSNI ELIPSOID

## TRIKLINSKI, MONOKLINSKI, ORTOROMBSKI KRISTALI

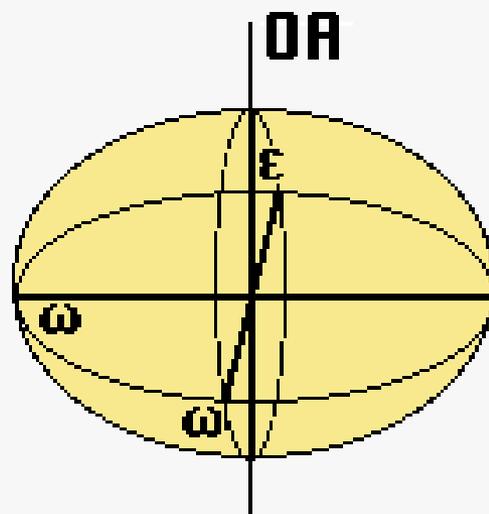


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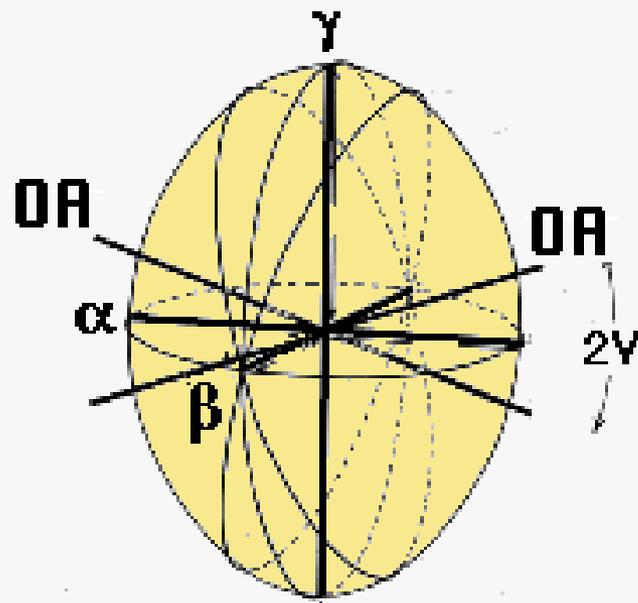
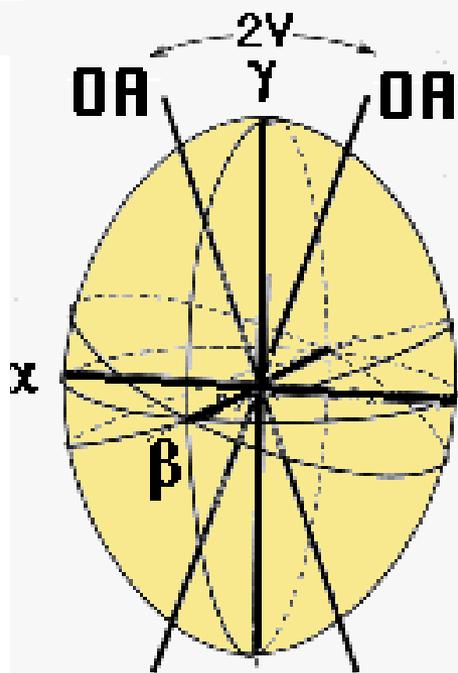
POZITIVNI



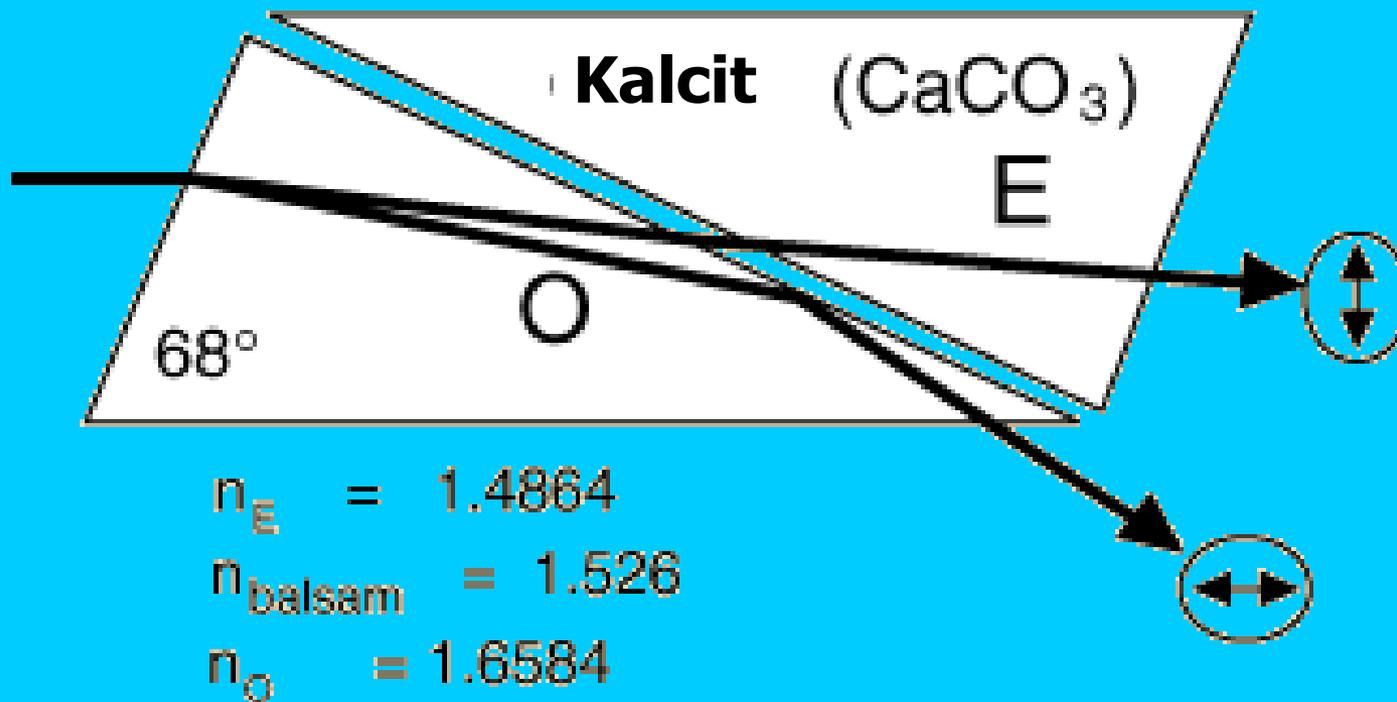
NEGATIVNI



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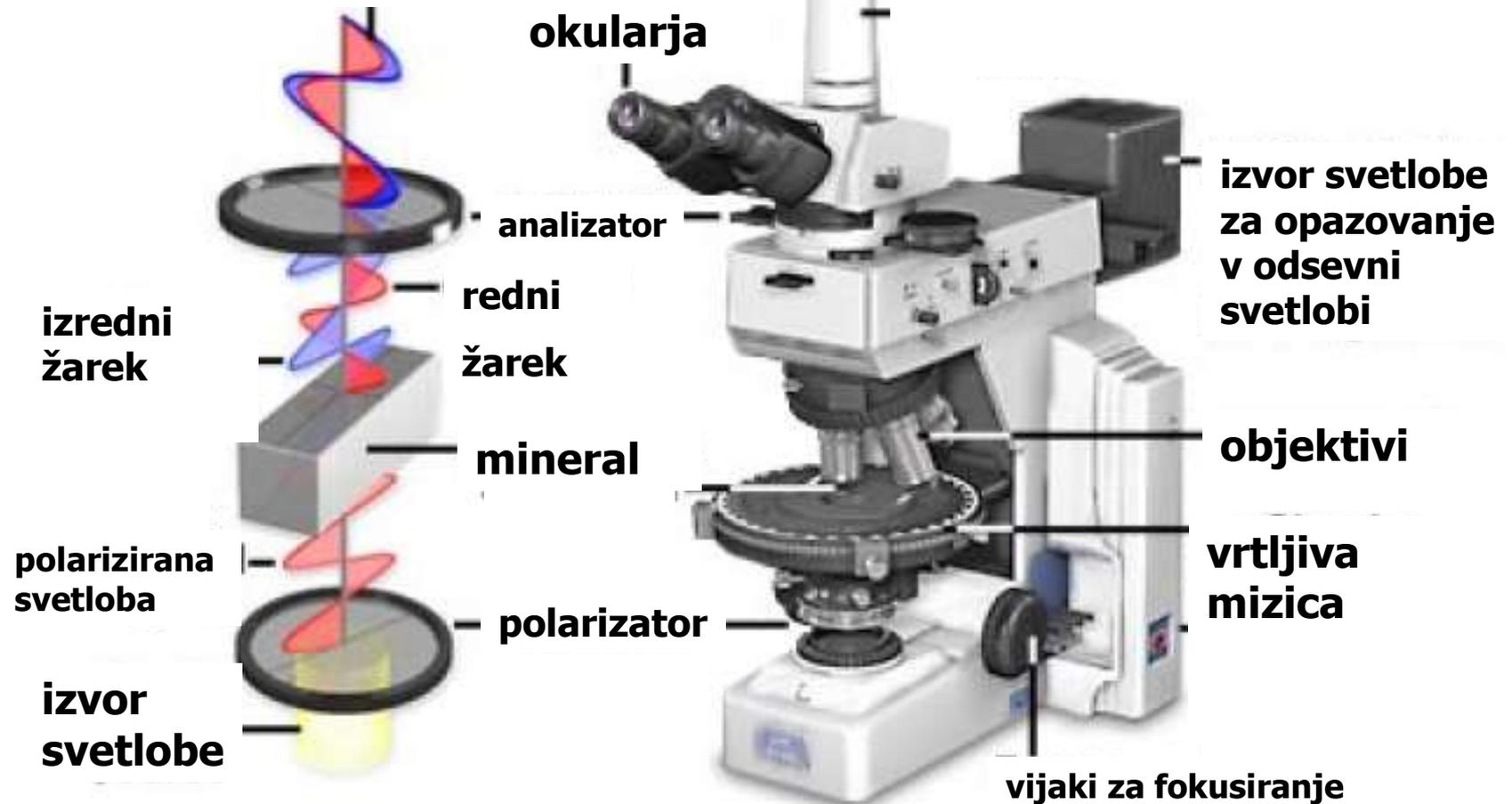


## Polarizacija zaradi dvoloma



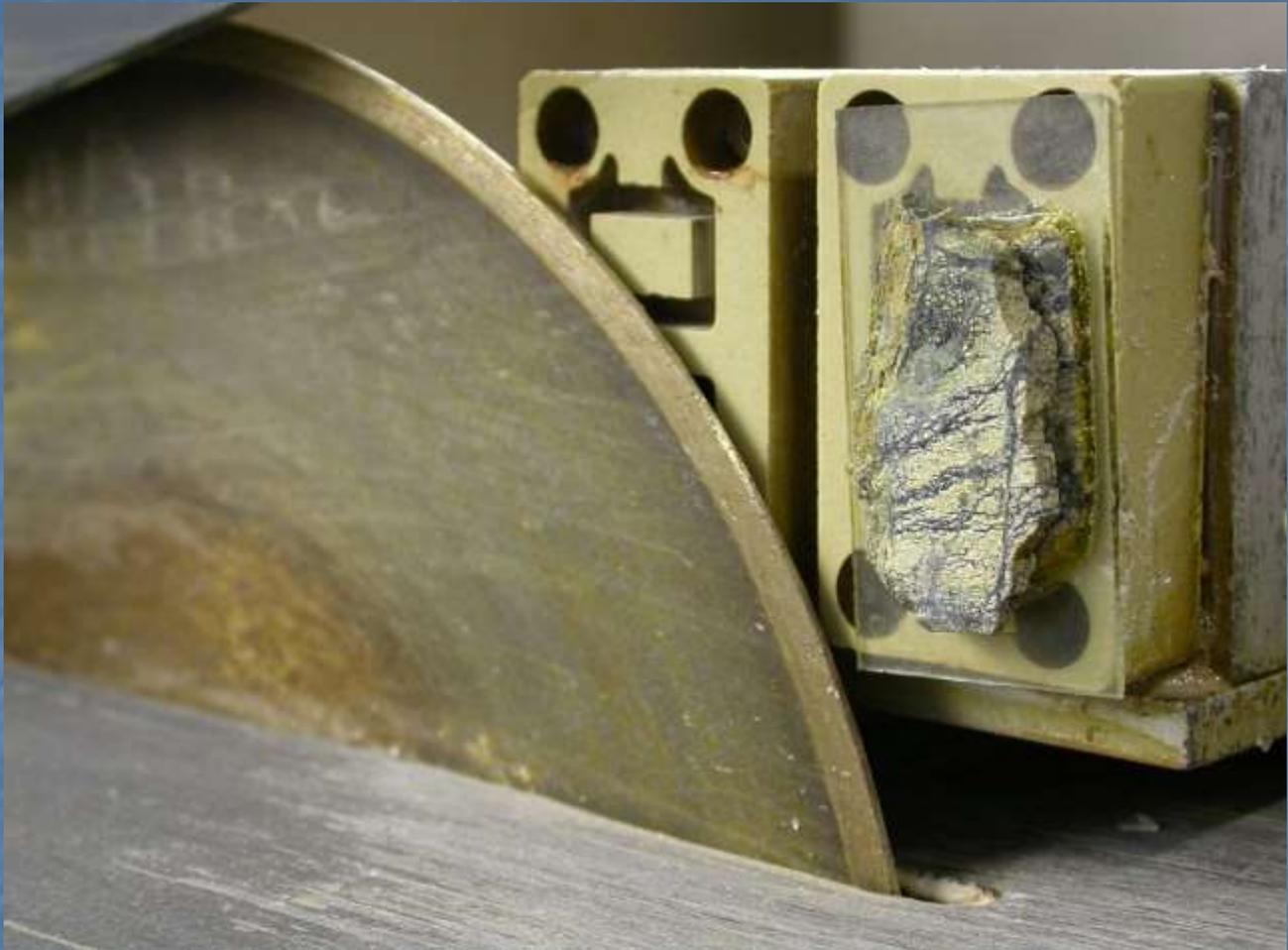
# POLARIZACIJSKI MIKROSKOP

## INTERFERENCA ŽARKOV



# ZBRUSEK





Handwritten symbols on a fragment of clay, including the number 3 and arrows pointing up and right.

Handwritten symbols on a fragment of clay, including the number 5 and several arrows pointing in various directions.

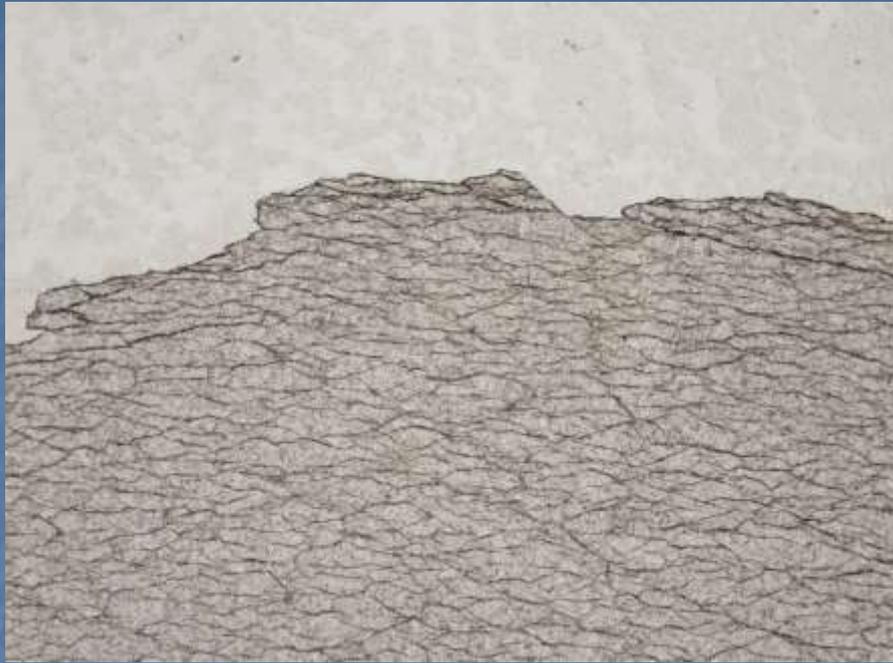
Handwritten symbols on a fragment of clay, including the number 20a and 20a written in red ink.

Handwritten symbols on a fragment of clay, including the number 902 and 902 written in red ink.



# RELIEF IN BECKE-JEVA ČRTA

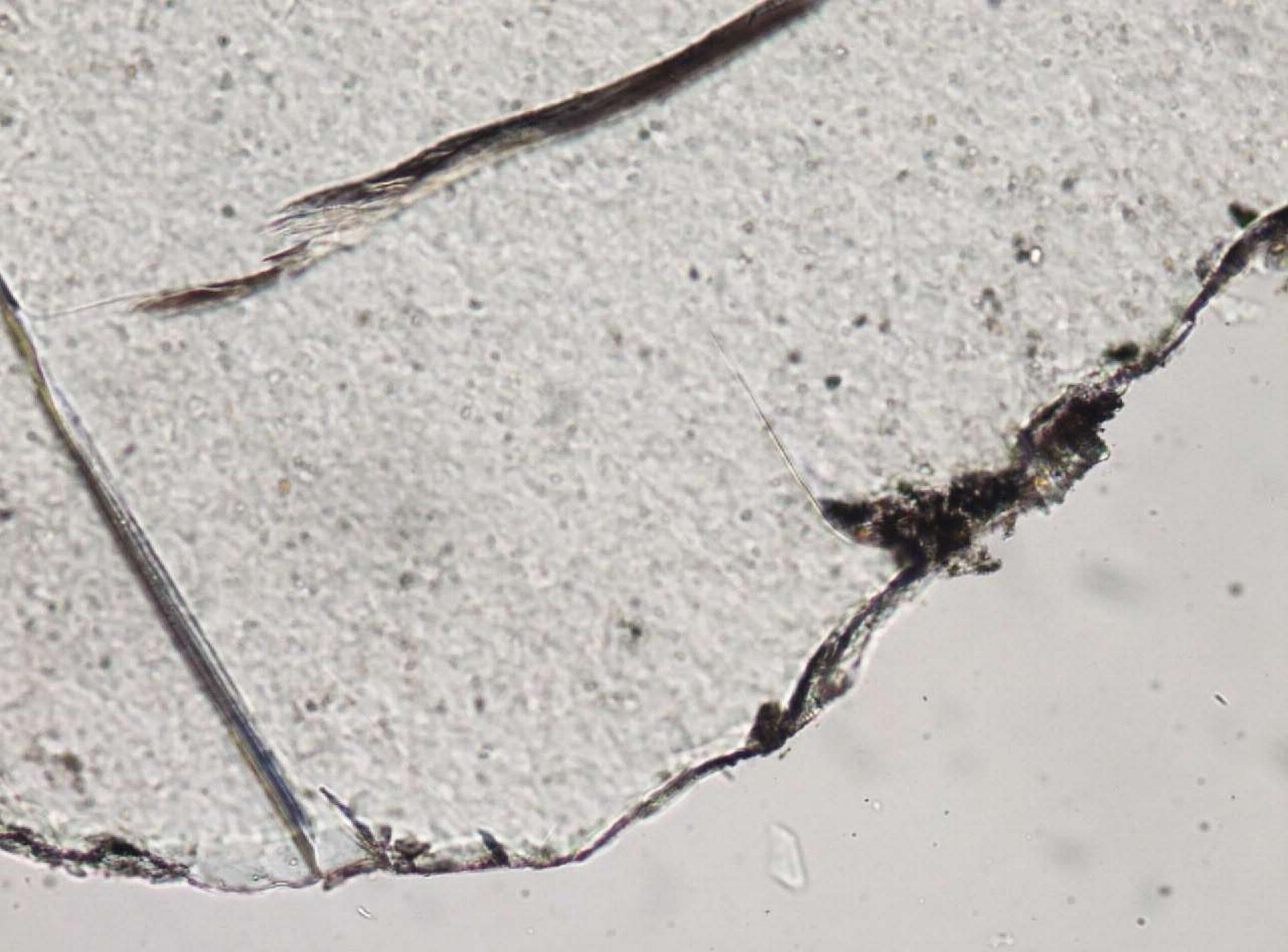




**visok relief**

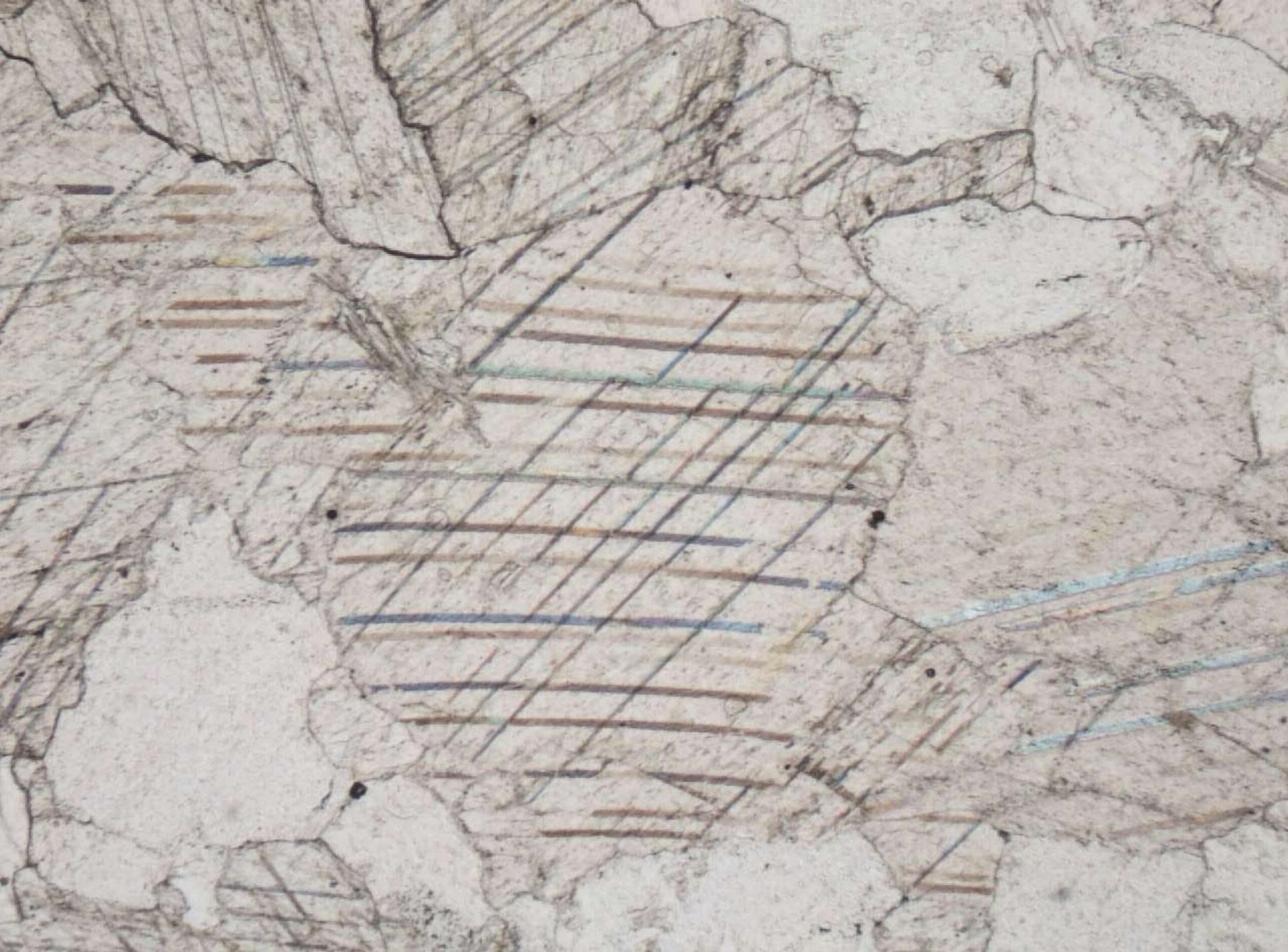


**nizek relief**



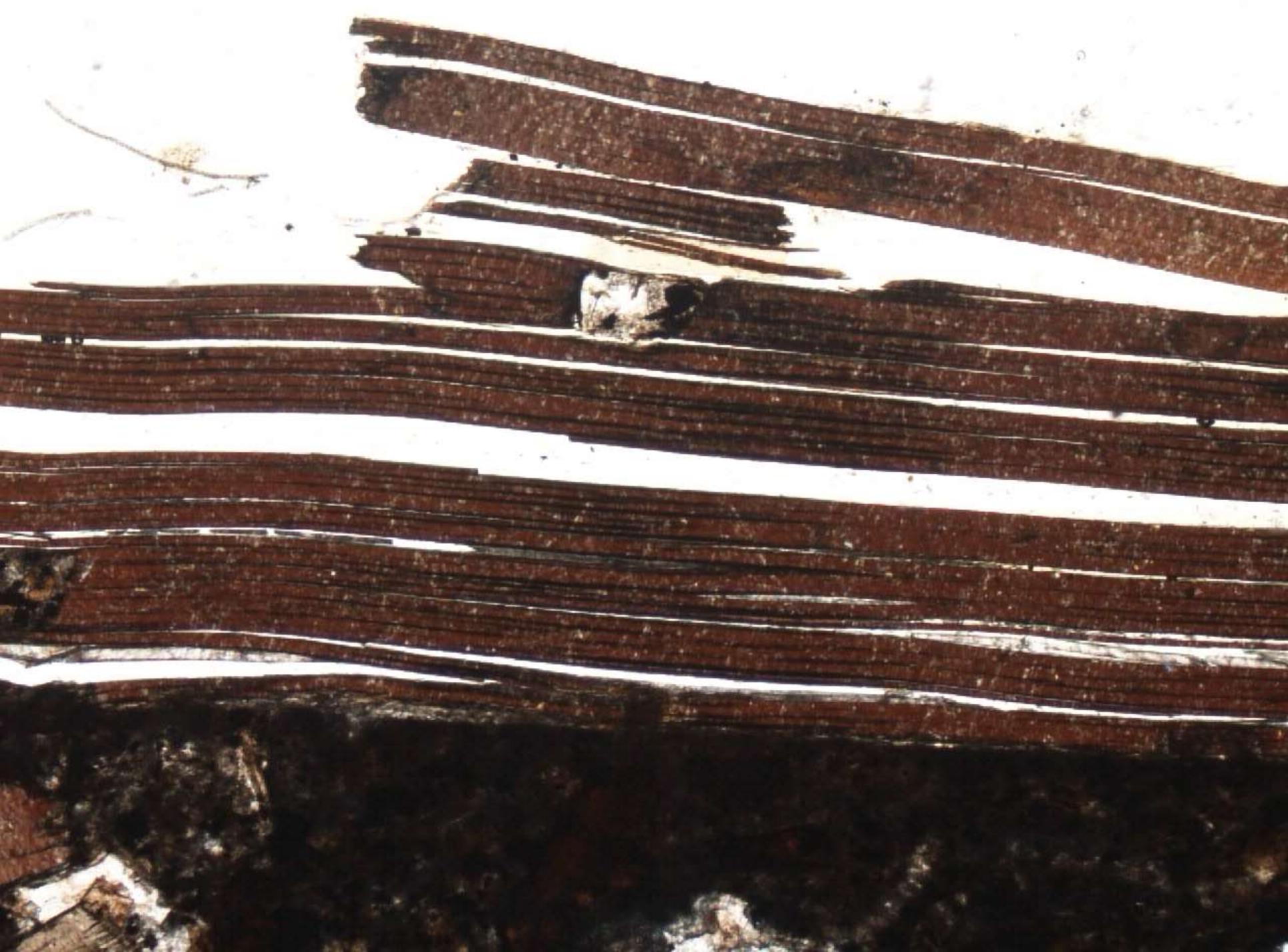




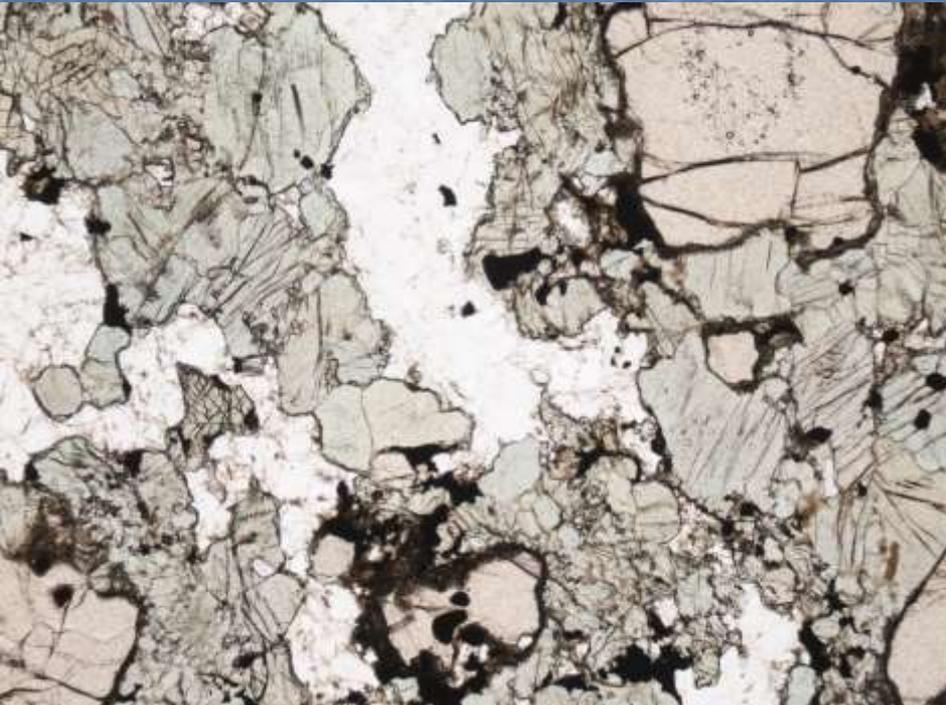


# PLEOHROIZEM

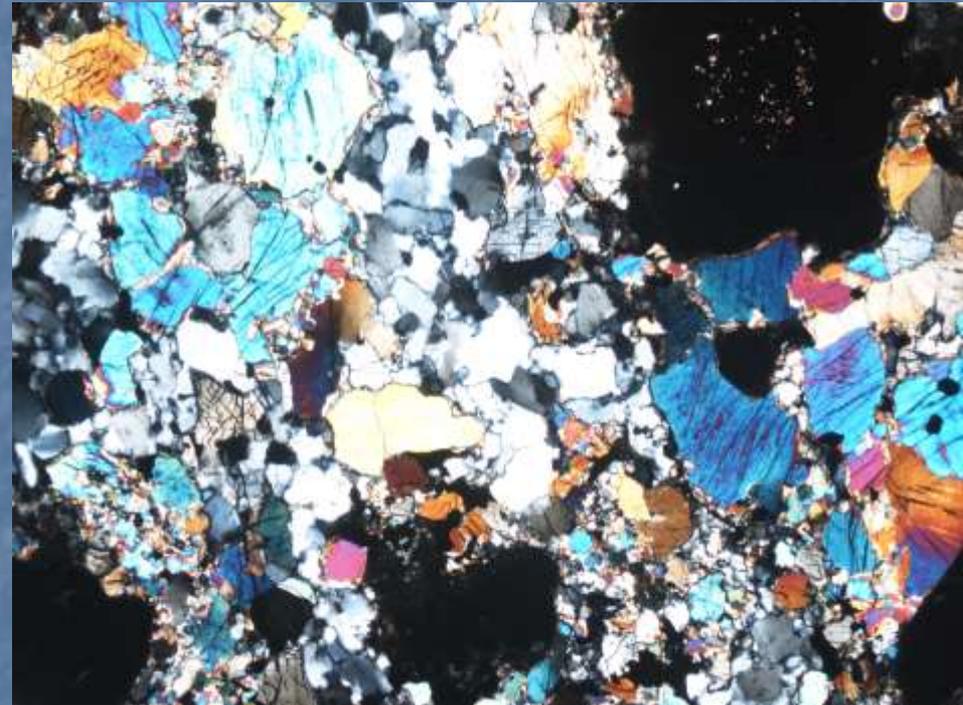




# INTERFERENČNE BARVE



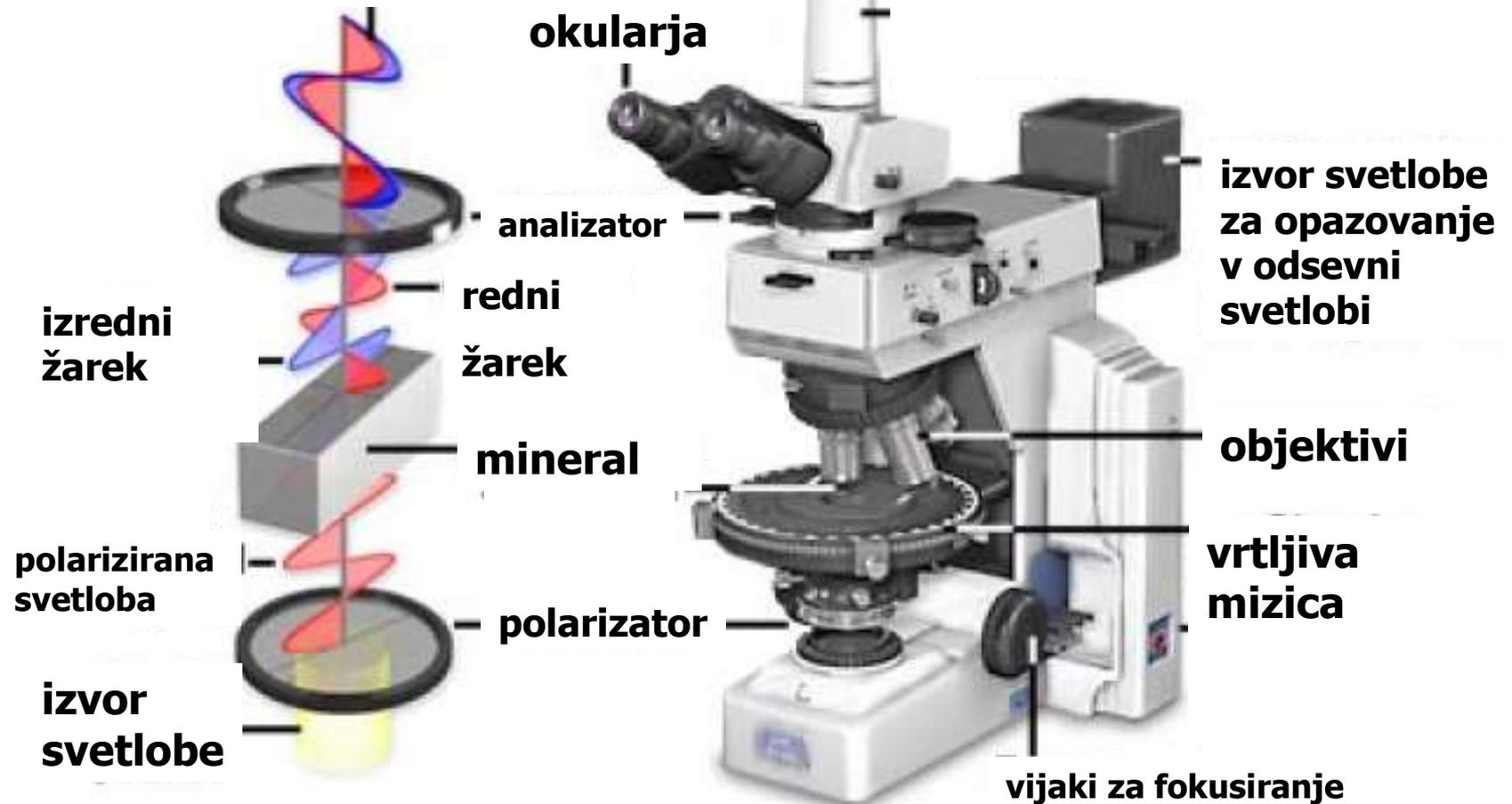
brez vključenega analizatorja



z vključenim analizatorjem

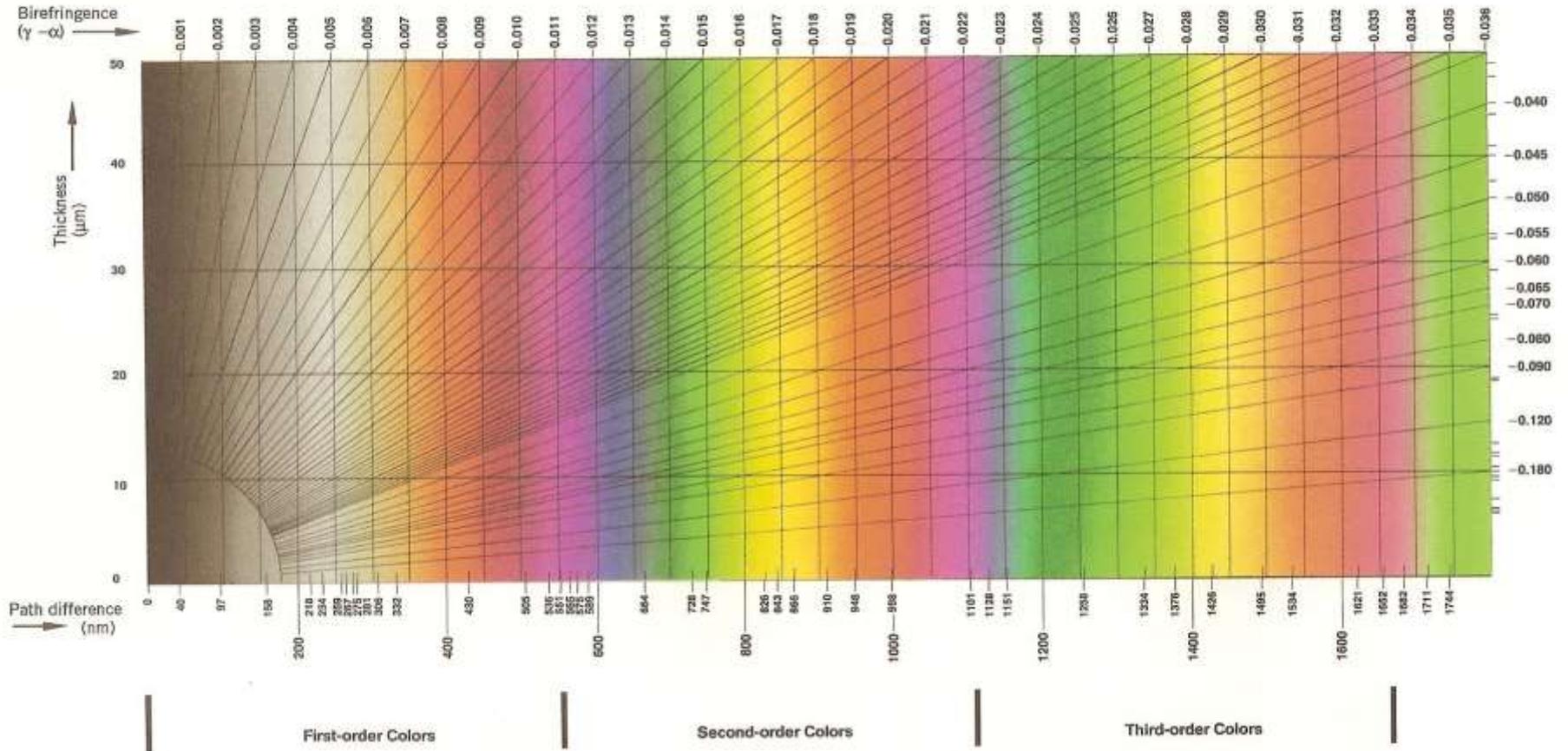
# POLARIZACIJSKI MIKROSKOP

## INTERFERENCA ŽARKOV

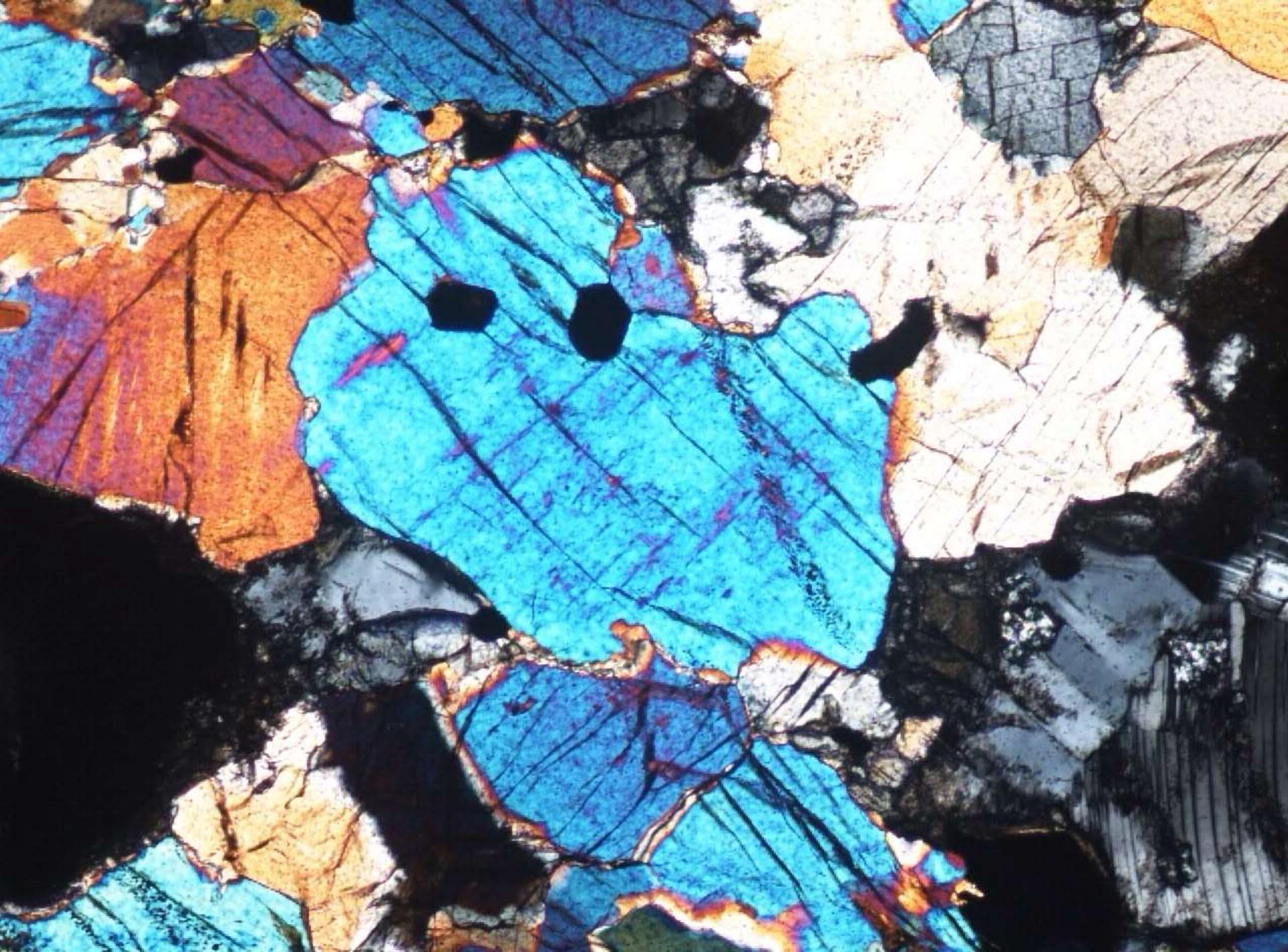


# Interference Color Chart

(compare with Fig. 8.15)



$$\Delta = d (n_g - n_p)$$



# Kompenzator

- kremenov klin

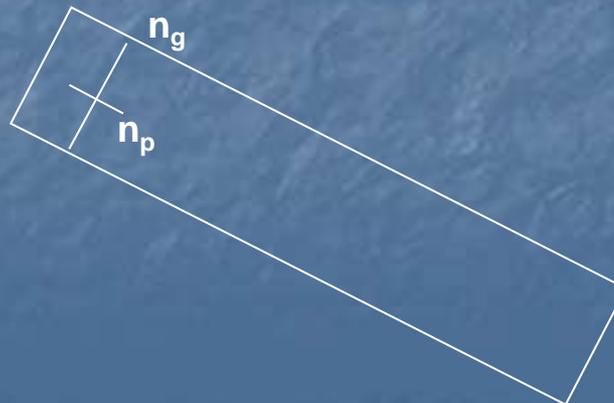
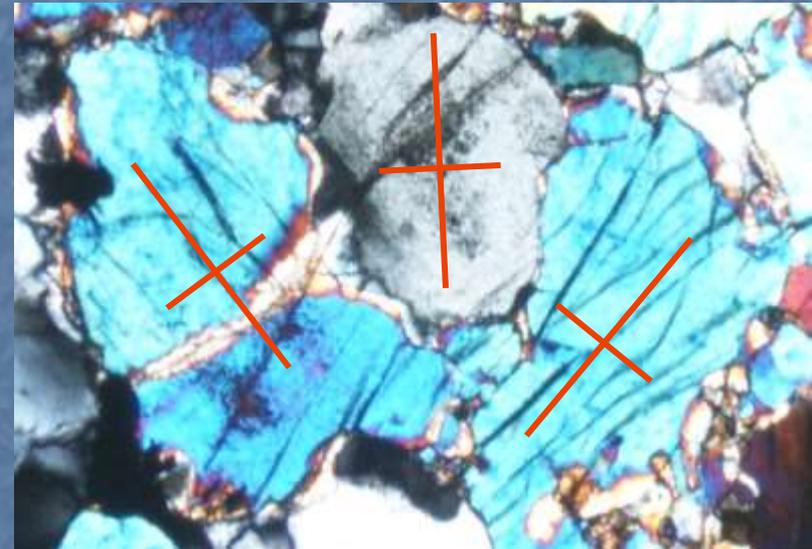
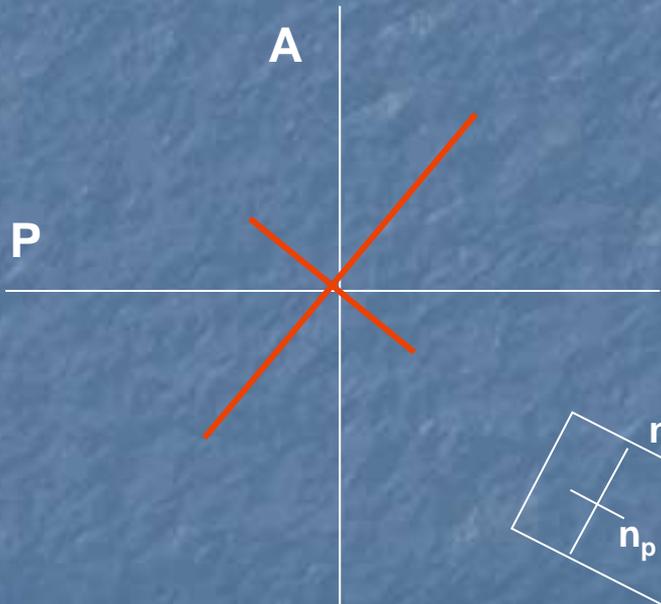
do  $3\lambda$

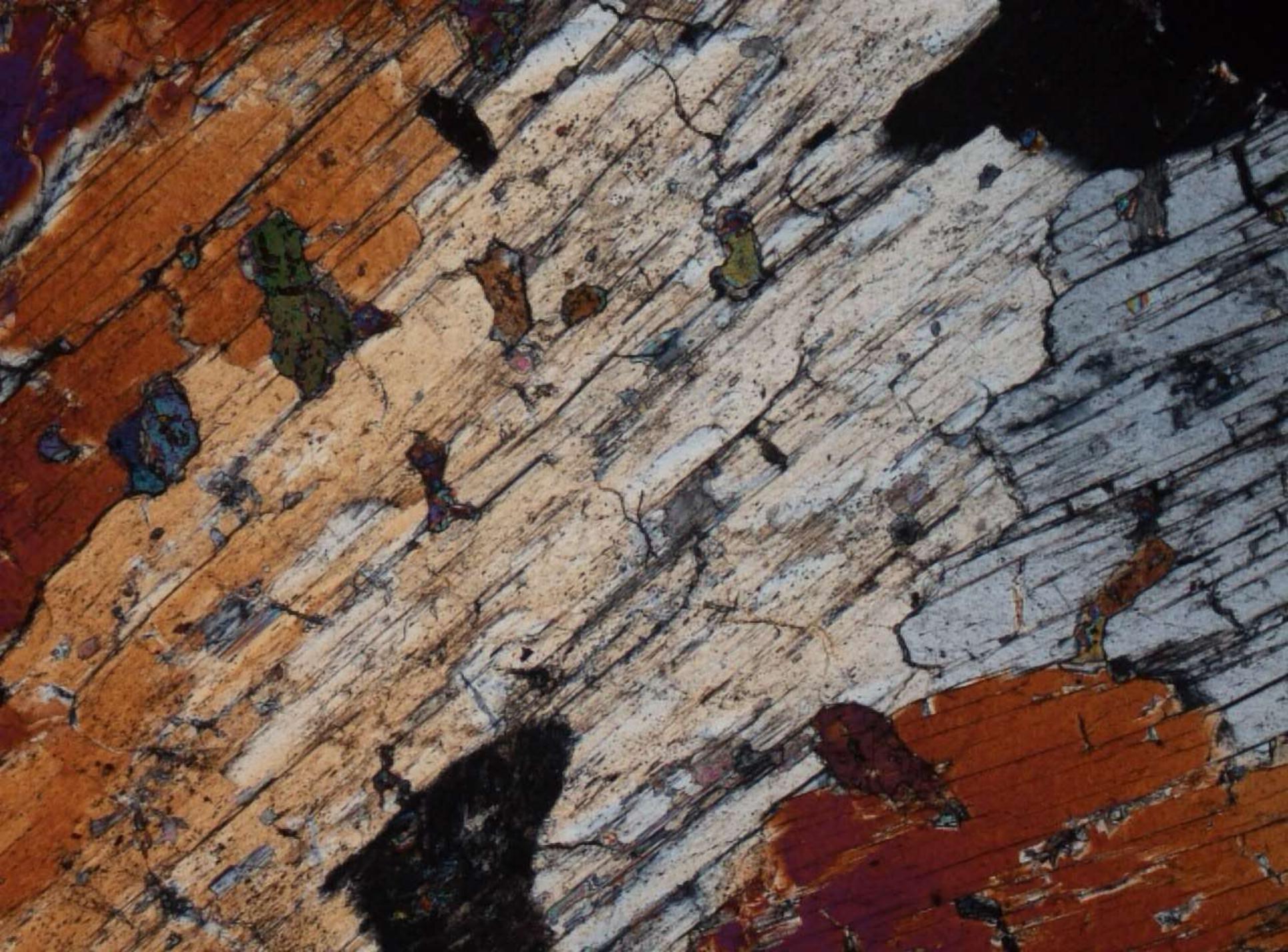
- sadrina ploščica

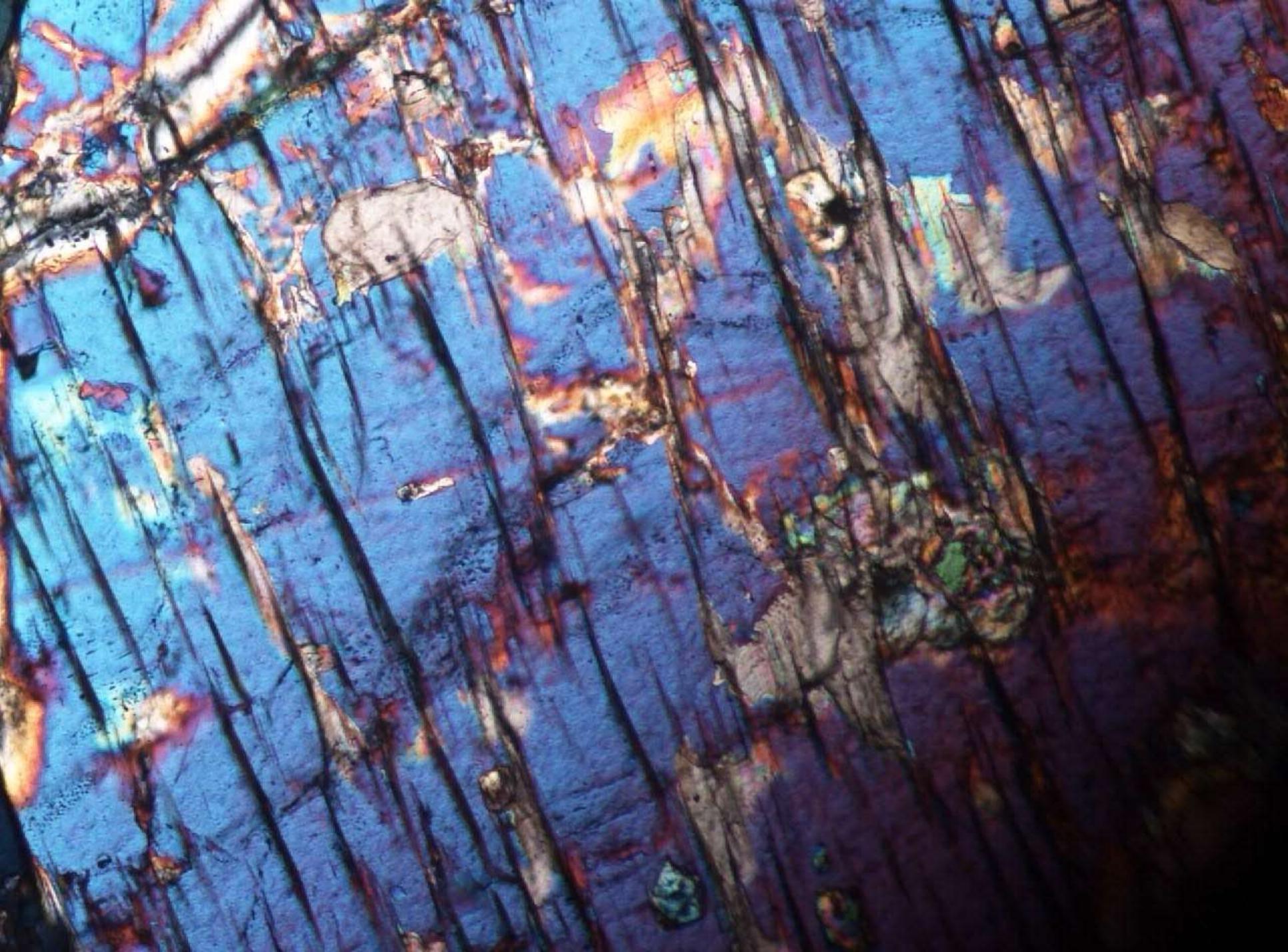
$\lambda$

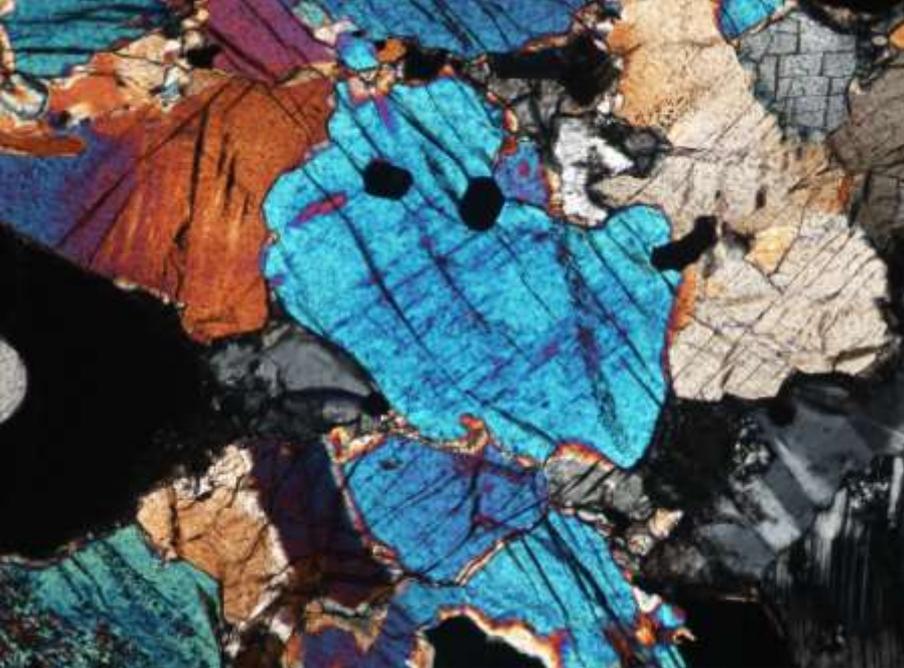
- sljudina ploščica

$1/4 \lambda$

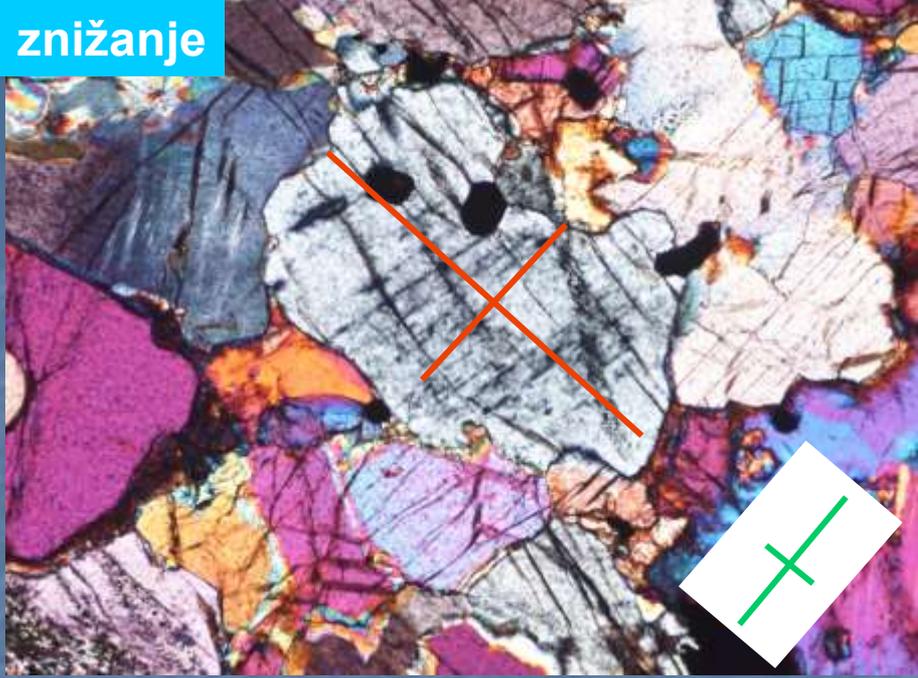




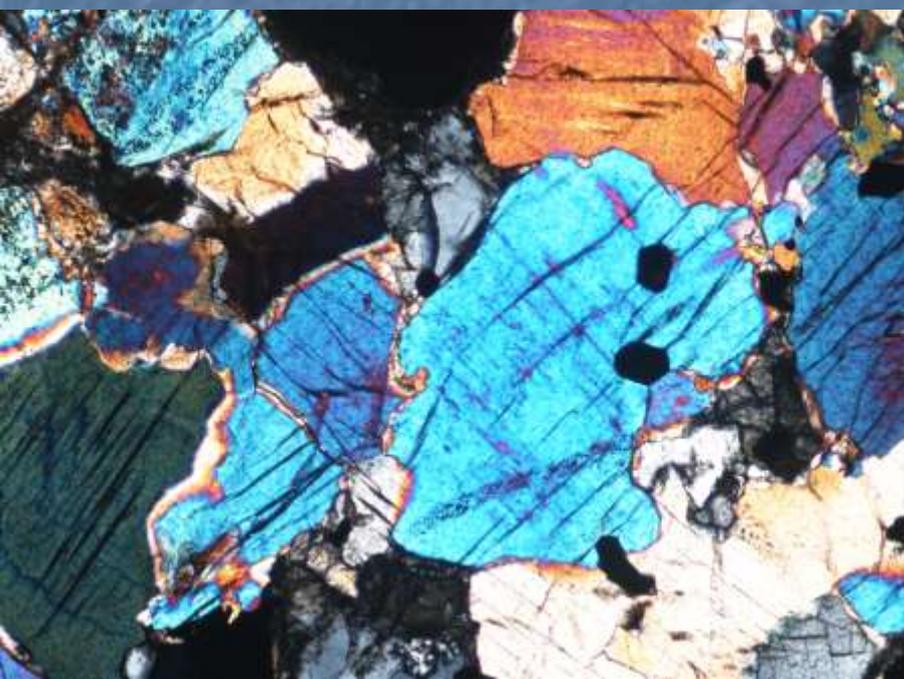




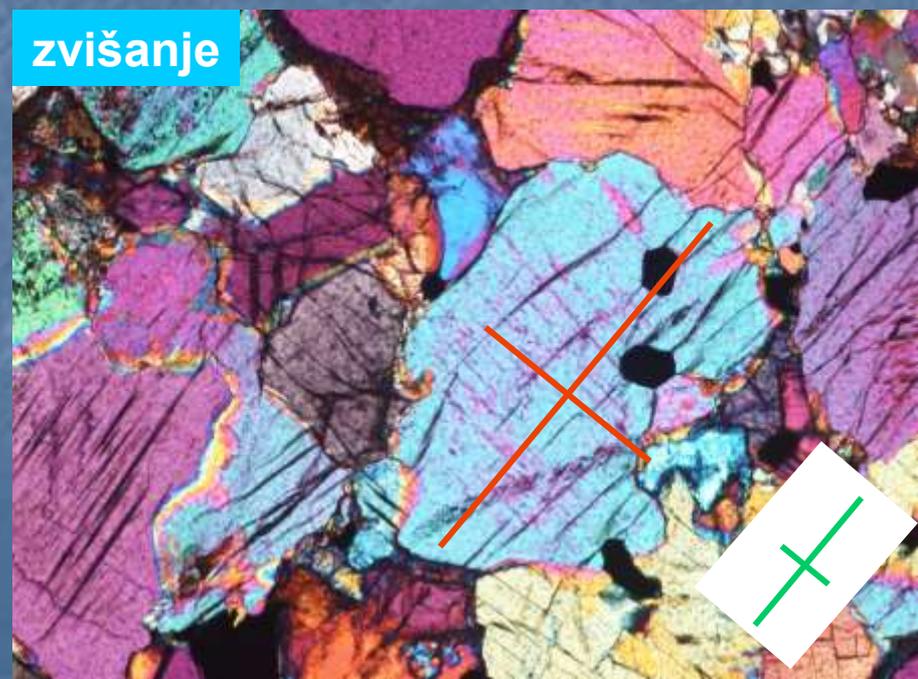
znižanje



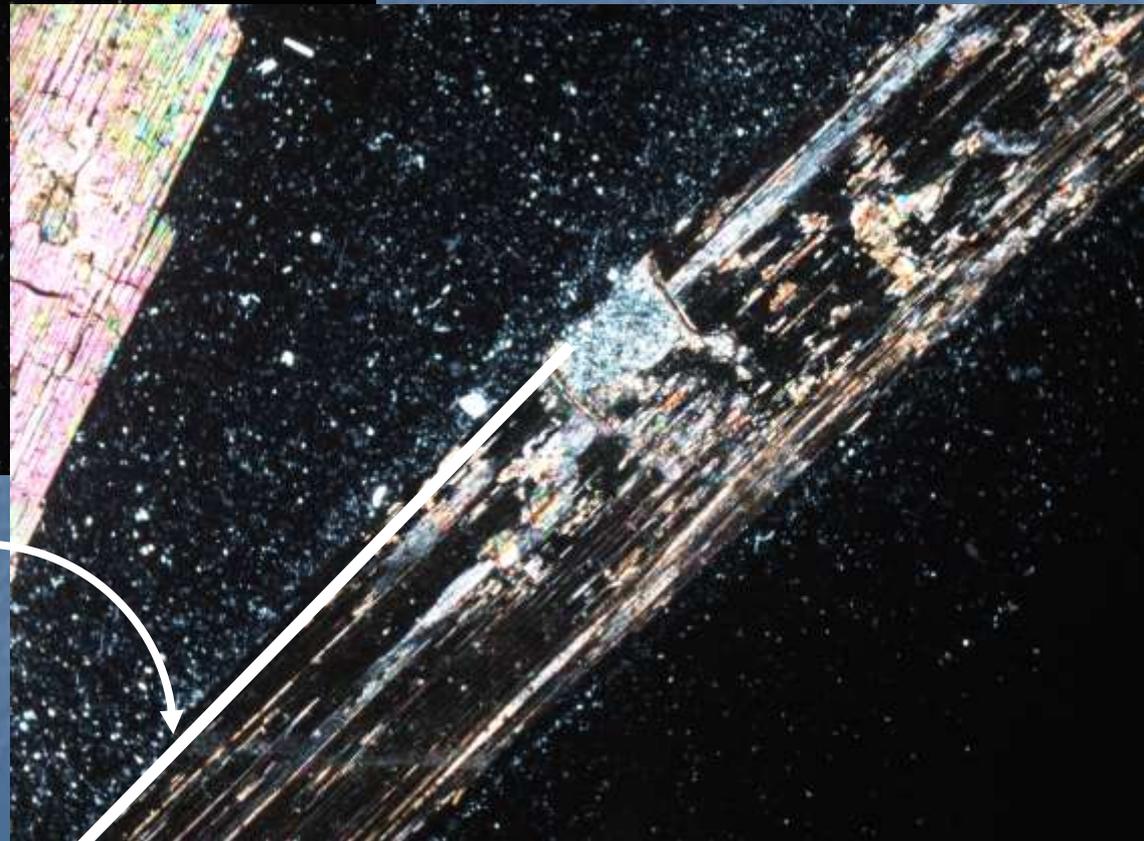
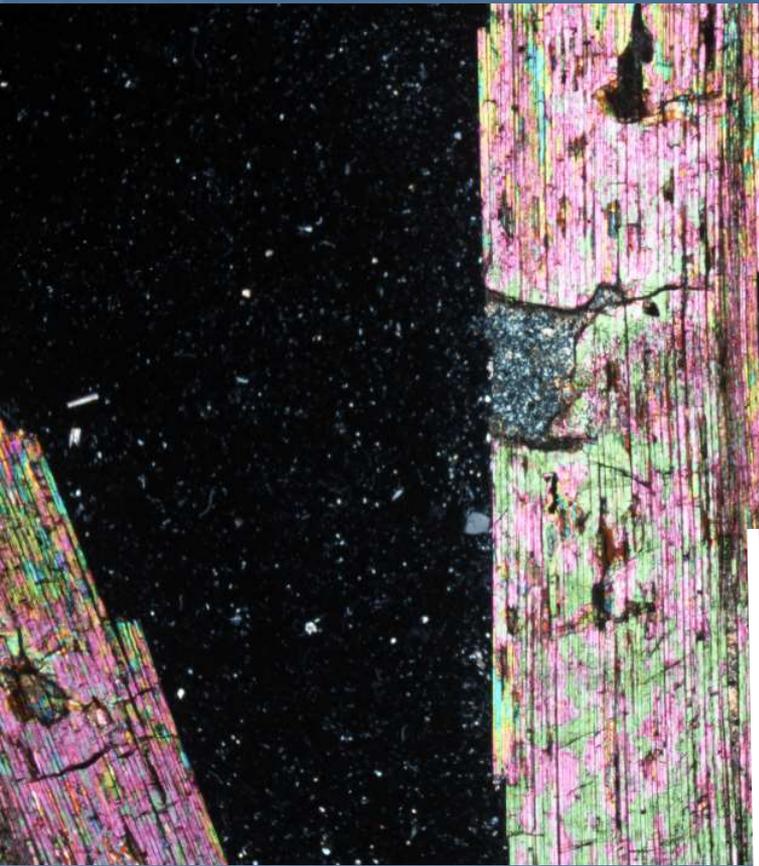
sadrina ploščica



zvišanje







# Optična kristalografija

- lomni količnik
- dvolom
- optična indikatrisa
- polarizacijski mikroskop
- relief
- becke-jeva črta
- psevdabsorbpcija
- psevdohroizem
- pleohroizem
- interferenčne barve
- optična orientacija zrn
- kot potemnitve