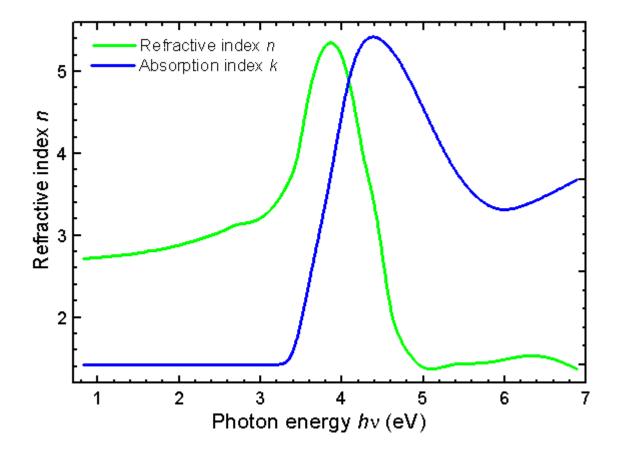
# Digitizer

The program can automatically digitize a graph from a bitmap image under the following conditions:

- Only continuous lines (as opposed to dashed or dotted lines) can be digitized
- If there is an overlapping of multiple curves, their color or brightness must differ
- The background of the graph (especially gridlines or texture) must have a different color or brightness
- The coordinate axes need not be exactly aligned horizontally/vertically, but the curve is assumed running from left to right

► Helper functions	
Load := FILE "Test.gif"	E Click here for help
_CROP (0 0 60 0)	

Processing



### ▶ Processing **Properties of selection:**

Position  $= (81 \ 283)$ 

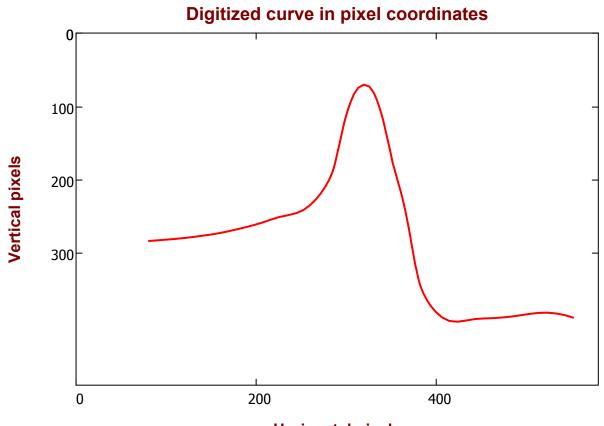
Area = (74 277 87 289)

 $Color = (0 \ 255 \ 0)$ 

# Click <u>here</u> for help

	METHOD	LINE		
	START	(73 276 87 290)		
Digitize :=	END	547		
	MODE	COLOR		
	DEV	0.1		

### ▶ Processing





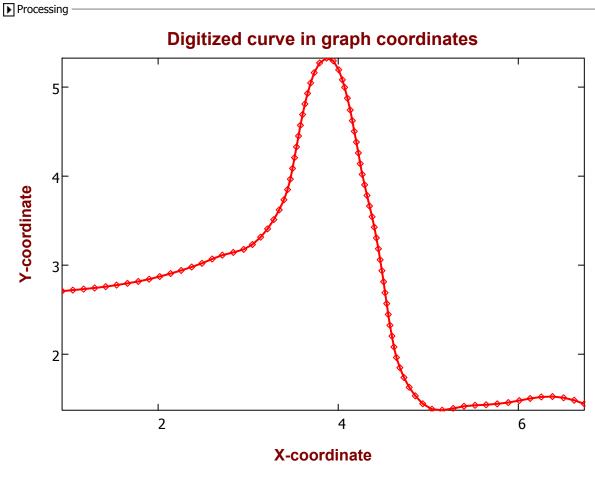
# ======== Coordinate transform ========

## At least 3 pairs of points are required for coordinate transform

Transform :=	( 87 )	(493)	(87)	(493)
	(406)	407	(47)	<b>48</b>
	(1)	(6)	(1)	(6)
	1.2	(1.2)	5.6	5.6

← Pixel coordinates

← Graph coordinates



#### Processing

## Digitized curve was written to the file ResultsFile = "Test.digitized"