

Physics 108 Assignment#5 (due on 5/17/2017)

**Reading materials:**

*Pedrotti 3<sup>rd</sup> Edition:*      **Chapter 23:** 23-1 through 23-7  
*Lecture Notes:*              pp. 78 - 95

**Homework:** (Pedrotti 3<sup>rd</sup> Edition)

1.     23-2
2.     23-5
3.     23-12
4.     23-13
5.     23-15
6.     23-16
7.     23-20
8.     23-19
9.     23-21
10.    25-1
11.    ***Landscape Lens:*** Perform the Introductory Exercise on Landscape Lens using OSLOEDU software. Show YOUR results by (1) displaying the starting “Surface Data” and “Lens Drawing” for paraxial rays and non-paraxial rays; and (2) displaying your optimized “Surface Data” and “Lens Drawing” for paraxial rays and non-paraxial rays. (You may also try the following condition for start: and “draw off”).

SRF	RADIUS	THICKNESS	APERTURE RADIUS	GLASS	SPE
OBJ	--	1.6000e+03	582.352375	AIR	*
1	21.807957 V	4.000000	11.666830 S	BK7	C
2	27.777778	12.647480 V	9.997114 S	AIR	
AST	--	155.058604 S	4.341641 AS	AIR	*
IMS	--	--	67.000000		*