Name

Neptun id. number:

:

"Nobel-prize physics in ..."

Short Test 5

1. The characteristic precision in holographic (optical) metrology:

a. $5.0 \ \mu m$ b. $1.0 \ \mu m$ c. $0.5 \ \mu m$ d. $0.1 \ \mu m$ e. none of them

2. For the exposure of a white-light hologram the reference beam was a plane wave and the object beam was a converging beam. The common optical axis of the beams was perpendicular to the holographic plate.

a. The hologram is a simple converging lens.

b. The hologram is a simple diverging lens.

c. The hologram cannot be used as a lens.

d. The hologram behaves as a diverging lens and as a converging lens, too.

e. None of them.

3. The holographic metrology can not be used to:

a. determine the
structure of an objectb. comparing the
shape of two objectc. contouring
a 3Dobjectd. 3D shape
measuremente. none of them
measurement

4. The exposure of a hologram is required:

a. a holographic plate

b. an objective (lens system) to project the object wave

c. two coherent waves and a recording material

d. laser beam

e. none of them

5. To exposure a digital hologram:

a. we need two	b. photopolymer	c. an in-line	d. developer s	e. none of them
lasers	holographic	arrangement		
	plate			