

Minutes of the meeting on ET-WP2 task “Definition of substrates and coating properties at low temperature”

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The discussion was focused on the start up of the activity of this task. As it is declared on the ET proposal, the first step of the design study is to define the requirement for the materials involved in the design of the mirror and its suspension.

We note that there is a large overlap of this task with that concerning the “Design of Lower Suspension Fibers”.

The wish is to make an effort for strengthening the exchange of information among the entire physicist involved in both the task groups.

We agreed that in the initial phase we have to prepare a first report based on the status of the art of our knowledge on this matter.

We listed four different chapters of the report and the

corresponding reference persons for collecting and assembling all the information available at the present time:

- The mechanical and optical properties of coating material
(R. Flaminio)
- The mechanical and optical properties of materials for the mirror bulk
(R. Narwodt)
- Cryogenic compatibility of optical system and their performances (as for example Fabry Perot cavities)
(G. Cantatore)
- Investigation method for material qualification and surface status
(F. Vetrano)

We expect to review this activity during the next phone-conference meeting of WP2 to be held in December 2008.