

# List of orders and status

| Topic  | Object                                         | Amount | Comment                                                                                                          | Status | Company                        | Order Number | Price     | Delivery date | Invoice number |
|--------|------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------|--------|--------------------------------|--------------|-----------|---------------|----------------|
| Cavity | spacer                                         | 1      | PTB                                                                                                              | done   |                                |              |           |               |                |
|        | Mounting                                       | 1      | produced at IQ Workshop                                                                                          | done   |                                |              |           |               |                |
|        | Zerodur rods                                   | 2      | PTB                                                                                                              | done   |                                |              |           |               |                |
|        | ULE rings                                      |        | PTB                                                                                                              |        |                                |              |           |               |                |
|        | crystalline mirrors                            |        | PTB - the mirrors were cleaned                                                                                   |        |                                |              |           |               |                |
|        | heat shields                                   |        | PTB                                                                                                              |        |                                |              |           |               |                |
|        | optical windows                                |        | PTB                                                                                                              |        |                                |              |           |               |                |
|        | support structure                              |        | PTB                                                                                                              |        |                                |              |           |               |                |
|        | passive vibration isolation                    | 1      | IQ                                                                                                               | done   |                                |              |           |               |                |
|        | ...                                            |        |                                                                                                                  |        |                                |              |           |               |                |
|        | ...                                            |        |                                                                                                                  |        |                                |              |           |               |                |
|        | ...                                            |        |                                                                                                                  |        |                                |              |           |               |                |
|        | ...                                            |        |                                                                                                                  |        |                                |              |           |               |                |
| Vacuum | vacuum chamber                                 | 1      | PTB - Leak test → has to be repair                                                                               |        |                                |              |           |               |                |
|        | windows                                        | 8      | Provided by PTB at the moment, but we have to buy it for them later.                                             |        |                                |              |           |               |                |
|        | 40 l/s IGP (StarCell) + IGP Controller + Cable | 1      | CF40 flange size                                                                                                 | done   | Agilent                        | Q4F-16-112   | 3.729,46€ |               |                |
|        | Vacuum pressure sensore, Controller            | 1      |                                                                                                                  |        | we got the things from Quantus |              |           |               |                |
|        | Vacuum sensor cable                            | 1      |                                                                                                                  | done   | Pfeiffer Vacuum                | Q4F-16-121   | 75,21€    |               |                |
|        | angle valve                                    | 1      | CF40 flange size                                                                                                 | done   | VAT                            | Q4F-16-101   | 596€      |               |                |
|        | CF-Kreuz                                       | 1      | CF40 flange size                                                                                                 | done   | VACOM                          | Q4F-16-114   | 529,55€   |               |                |
|        | vacuum screws                                  |        | For the cavity mounting and vacuum chamber                                                                       |        |                                |              |           |               |                |
|        | indium wire & foil                             |        | 10m Spool and 3* 100x100x0,1mm                                                                                   | done   | Cryo andmore                   | Q4F-16-100   | 485,52€   |               |                |
|        | Sub-D Socket                                   | each 1 | female, 37pins and 9pins, Peek UHV                                                                               | done   | Allectra                       |              |           |               |                |
|        | Windowholding                                  | 2      | IQ workshop                                                                                                      | done   |                                |              |           |               |                |
|        | Gate valve                                     | 1      | CF40 flange size                                                                                                 | done   | VAT                            | Q4F-16-101   | 1128€     |               |                |
|        | small vacuum stuff                             |        | capton wires:10m diameter 0.25mm; 10m diameter 0.64mm<br>10x CF-Copper rings (vakuumgeglüht)<br>6x CF-Flanschkit | done   | Vacom                          | Q4F-16-114   | 236,83€   |               |                |
|        | CF-Blindflange                                 | 4      |                                                                                                                  | done   | Vacom                          | Q4F-16-120   | 74,02€    |               |                |

|                        |                         |    |                                                                                                                 |                    |                      |                 |                        |                           |                                  |
|------------------------|-------------------------|----|-----------------------------------------------------------------------------------------------------------------|--------------------|----------------------|-----------------|------------------------|---------------------------|----------------------------------|
| Electronics for cavity | temperature controller  | 1  | PTB                                                                                                             |                    |                      |                 |                        |                           |                                  |
|                        | PDH lockbox             | 1  | PTB                                                                                                             |                    |                      |                 |                        |                           |                                  |
|                        | RAM control             | 1  | PTB                                                                                                             |                    |                      |                 |                        |                           |                                  |
|                        | intensity stabilization | 1  | PTB                                                                                                             |                    |                      |                 |                        |                           |                                  |
|                        | Photodiodes             |    | PTB - Comparison with Klaus-photodiode?                                                                         |                    |                      |                 |                        |                           |                                  |
|                        | NTC Sensors             | 25 |                                                                                                                 | done               | RS                   | Q4F-16-098      | 143,59€                |                           |                                  |
|                        | Peltier-elements        | 12 | PTB has only 6 - We need 6 with same heigh for inside the vacuumchamber.                                        | done               | Peltron              | Q4F-16-102      | 153,51€                |                           |                                  |
|                        | Crimp pins for Sub-D    |    |                                                                                                                 | done               | Allectra             | Q4F-16-099      | 220,15€                |                           |                                  |
| Optics for the laser   | ...                     |    |                                                                                                                 |                    |                      |                 |                        |                           |                                  |
|                        | faraday rotator         | 2  | Infront and behind cavity, vacuum compatible                                                                    | Delivered and Paid | Notrus Optronic      | USLO-NJ-2016-1  | 3.320,10 €             | 26/10/2016                | RE160243                         |
|                        | Isolator free space     | 1  | may be two                                                                                                      |                    |                      |                 |                        |                           |                                  |
|                        | lambda/2-plate          | 3  |                                                                                                                 | Delivered and Paid | Crylight             | USLO-NJ-2016-2  | 425 \$ + 104,01 € Zoll | 30/9/2016                 | INV161064 and Zoll Nr: 853543456 |
|                        | PBS                     | 2  |                                                                                                                 | Delivered and Paid | Qioptiq              | USLO-NJ-2016-5  | 461,72 €               | 13/09/2016                | 38405211                         |
|                        | Lens                    | 4  | 1x Mode matching, 3x focussing lenses                                                                           |                    |                      |                 |                        |                           |                                  |
|                        | Mirror                  | 4  | includes mount (1/2")                                                                                           | Delivered and Paid | ThorLabs             | USLO-NJ-2016-3  | 981,48 €               | 13/09/2016                | MI2752025 and MI2754636          |
|                        | ...                     |    |                                                                                                                 |                    |                      |                 |                        |                           |                                  |
|                        | ...                     |    |                                                                                                                 |                    |                      |                 |                        |                           |                                  |
|                        | ...                     |    |                                                                                                                 |                    |                      |                 |                        |                           |                                  |
| Fibers and accessories | Isolator fiber          | 2  | Without fiber tails                                                                                             | Delivered and Paid | Laser2000            | USLO-NJ-2016-4  | 1830,16 €              | 04/10/2016 and 27/10/2016 | 1604427 and 1604760              |
|                        | fiber splitter          | 1  |                                                                                                                 | Delivered and Paid | Opneti               | USLO-NJ-2016-6  | USD 350 and Zoll extra | 20/10/2016                | IV-161020-01005                  |
|                        | fiber collimator        | 1  |                                                                                                                 | done               | Schäfter & Kirchhoff | USLO-SS-2016-02 | 425,66€                |                           |                                  |
|                        | fiber eom               | 1  | Have to buy Ti doped from Photline (But at a later stage). Will use the Jenoptik EOM that we have at the moment |                    | Photline             |                 |                        |                           |                                  |
|                        | aom (pm)                | 2  | gooch and housego customized T-M080-0.5C8J-3-F2P <hi #fff200>FREE spacer or FIBER ???</hi>                      |                    |                      |                 |                        |                           |                                  |
|                        | ...                     |    |                                                                                                                 |                    |                      |                 |                        |                           |                                  |
|                        | ...                     |    |                                                                                                                 |                    |                      |                 |                        |                           |                                  |
|                        | ...                     |    |                                                                                                                 |                    |                      |                 |                        |                           |                                  |

|                 |     |  |  |  |  |  |  |  |  |
|-----------------|-----|--|--|--|--|--|--|--|--|
| Laser<br>1560nm | ... |  |  |  |  |  |  |  |  |
|                 | ... |  |  |  |  |  |  |  |  |
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