

# 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                                | 6+4                                 | PTB/IQ                                                                                                           | done               | Thorlabs                          | USLO-SS-2017-02 | 108,65€+253,89€ |               |                |
|        | 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€           |               |                |
|        | Vacuum screws with holes                       | 100 Stk for M6x25, 200Stk for M3x10 |                                                                                                                  | Delivered and Paid | ATH-Barth GmbH, SchraubenschopXXL | Q4F-17-133      | 508,99€         |               |                |
|        | small vacuum stuff                             |                                     | capton wires:10m diameter 0.25mm; 10m diameter 0.64mm<br>10x CF-Cupper rings (vakuumgeglüht)<br>6x CF-Flanschkit | done               | Vacom                             | Q4F-16-114      | 236,83€         |               |                |
|        | CF-Blindflange                                 | 4                                   |                                                                                                                  | done               | Vacom                             | Q4F-16-120      | 74,02€          |               |                |

|                           |                                                        |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
|---------------------------|--------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------|-----------------------------------|---------------------------|---------------------------------|----------------------------------------|
| Electronics<br>for cavity | temperature<br>controller                              | 1  | PTB                                                                                                                               |                       |                      |                                   |                           |                                 |                                        |
|                           | PDH lockbox                                            | 1  | PTB                                                                                                                               |                       |                      |                                   |                           |                                 |                                        |
|                           | RAM control                                            | 1  | PTB                                                                                                                               |                       |                      |                                   |                           |                                 |                                        |
|                           | intensity<br>stabilization                             | 1  | PTB                                                                                                                               |                       |                      |                                   |                           |                                 |                                        |
|                           | Photodiodes                                            |    | PTB - Comparison<br>with Klaus-<br>photodiode?                                                                                    |                       |                      |                                   |                           |                                 |                                        |
|                           | NTC Sensors                                            | 25 |                                                                                                                                   | done                  | RS                   | Q4F-16-098                        | 143,59€                   |                                 |                                        |
|                           | Peltier-elements                                       | 12 | PTB has only 6 - We<br>need 6 with same<br>height for inside the<br>vacuum chamber.                                               | done                  | Peltron              | Q4F-16-102                        | 153,51€                   |                                 |                                        |
|                           | Crimp pins for<br>Sub-D                                |    |                                                                                                                                   | done                  | Allectra             | Q4F-16-099                        | 220,15€                   |                                 |                                        |
|                           | Shrink, PTFE-<br>Tube, Kapton<br>insulated Cu-<br>wire |    |                                                                                                                                   | done                  | Allectra             | Q4F-17-148                        | 233,24€                   |                                 |                                        |
| Optics for<br>the laser   | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
|                           | faraday rotator                                        | 2  | Infront and behind<br>cavity, vacuum<br>compatible                                                                                | Delivered<br>and Paid | Notrus Optronic      | USLO-NJ-2016-1                    | 3.320,10 €                | 26/10/2016                      | RE160243                               |
|                           | Isolator free<br>space                                 | 1  |                                                                                                                                   | Delivered<br>and Paid | Notrus Optronic      | USLO-SS-2017-01                   | 1.916,20€                 |                                 |                                        |
|                           | lambda/2-plate                                         | 3  |                                                                                                                                   | Delivered<br>and Paid | Crylight             | USLO-NJ-2016-2                    | 425 \$ + 104,01 €<br>Zoll | 30/9/2016                       | INV161064 and<br>Zoll Nr:<br>853543456 |
|                           | PBS                                                    | 2  |                                                                                                                                   | Delivered<br>and Paid | Qioptiq              | USLO-NJ-2016-5                    | 461,72 €                  | 13/09/2016                      | 38405211                               |
|                           | Lens                                                   | 4  | 1x Mode matching,<br>3x focussing lenses                                                                                          |                       |                      |                                   |                           |                                 |                                        |
|                           | Mirror                                                 | 4  | includes mount<br>(1/2")                                                                                                          | Delivered<br>and Paid | ThorLabs             | USLO-NJ-2016-3                    | 981,48 €                  | 13/09/2016                      | MI2752025 and<br>MI2754636             |
|                           | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
|                           | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
|                           | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
| Fibers and<br>accessories | Isolator fiber                                         | 2  | Without fiber tails                                                                                                               | Delivered<br>and Paid | Laser2000            | USLO-NJ-2016-4                    | 1830,16 €                 | 04/10/2016<br>and<br>27/10/2016 | 1604427 and<br>1604760                 |
|                           | fiber splitter                                         | 1  |                                                                                                                                   | Delivered<br>and Paid | Opneti               | USLO-NJ-2016-6                    | USD 350 and Zoll<br>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<br>doped from Photline<br>(But at a later<br>stage). Will use the<br>Jenoptik EOM that<br>we have at the<br>moment |                       | Photline             |                                   |                           |                                 |                                        |
|                           | aom (pm)                                               | 1  | gooch and housego<br>customized T-<br>M080-0.5C8J-3-F2P                                                                           | done                  | AMS technologies     | USLO-SS-2016-01<br>(USLO-2017-01) | 3818,71€                  |                                 |                                        |
|                           | FRM                                                    | 2  | 1xFRM (we found in<br>the Lab) 1xFRM<br>bought                                                                                    | done                  | Laser2000            | USLO-SS-2017-04                   | 455,60€                   |                                 |                                        |
|                           | fiber aom (pm)                                         | 1  |                                                                                                                                   | done                  | Laser2000            | USLO-SS-2017-03                   | 3340,96 €                 |                                 |                                        |
|                           | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
|                           | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
|                           | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
| Laser<br>1560nm           | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
|                           | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
|                           | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
|                           | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |
|                           | ...                                                    |    |                                                                                                                                   |                       |                      |                                   |                           |                                 |                                        |

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