

klystron partitioning Linac4

| cavity type | number | LEP klystron | 352 MHz high-power klystron | Timestamp |
|--------------|--------|--------------|-----------------------------|----------------|
| RFQ | 1 | 1 | - | 13 August 2007 |
| DTL | 1 | 1 | - | 13 August 2007 |
| DTL | 2,3 | - | 2 | 13 August 2007 |
| CCDTL | 1-7 | 7 | - | 13 August 2007 |
| PIMS | 1-4 | 4 | - | 13 August 2007 |
| PIMS | 5-12 | - | 4 | 13 August 2007 |
| <i>total</i> | | 13 | 6 | |

power requirements at the cavity level

| cavity | peak power [kW] | Comment | Timestamp |
|----------|-----------------|---|-------------|
| RFQ | 537 | Superfish + 20% + beam | 26 May 2009 |
| DTL1 | 1000 | ZTT*0.8 + beam | 26 May 2009 |
| DTL2 | 2000 | ZTT*0.8 + beam | 26 May 2009 |
| DTL3 | 2000 | ZTT*0.8 + beam | 26 May 2009 |
| CCDTL1 | 960 | Superfish (incl. stems) + 20% + beam | 26 May 2009 |
| CCDTL2-7 | 1000 | Superfish (incl. stems) + 20% + beam | 26 May 2009 |
| PIMS1-12 | 1000 | Superfish ZTT - 30% (22/26% for Linac4/SPL), incl. everything | 26 May 2009 |

| | | |
|-------------|----|----------------|
| Ion species | H- | 10 August 2007 |
|-------------|----|----------------|

waveguides & auxiliary equipment

- CPI coaxial window for 352 and 704 MHz operation: [link](#)
- AFT RF load for half-height wave-guides, 352 MHz: [link](#) (restricted access)

SPL klystrons (under construction)

- Thales TH2168, 5 MW, 450 kW CW, 805 MHz (restricted access)

-- FrankGerigk - 18 Jun 2007

This topic: SPL > RFpowerPages

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