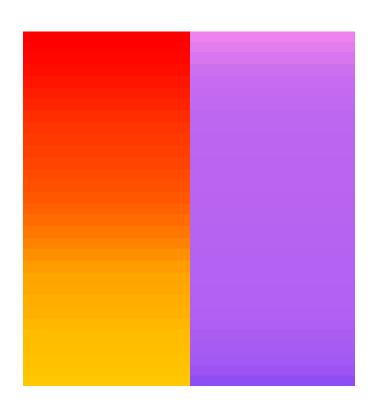


# **Chirped Mirror for Ultrashort Pulses**

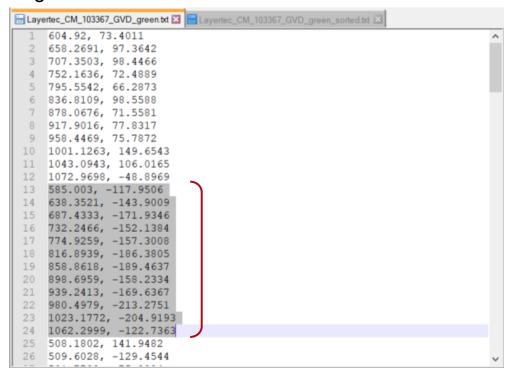
## **Abstract**



In this demo we will show how to import measured chirped mirror data.

## **Prepare Data**

### original data for CM 103367

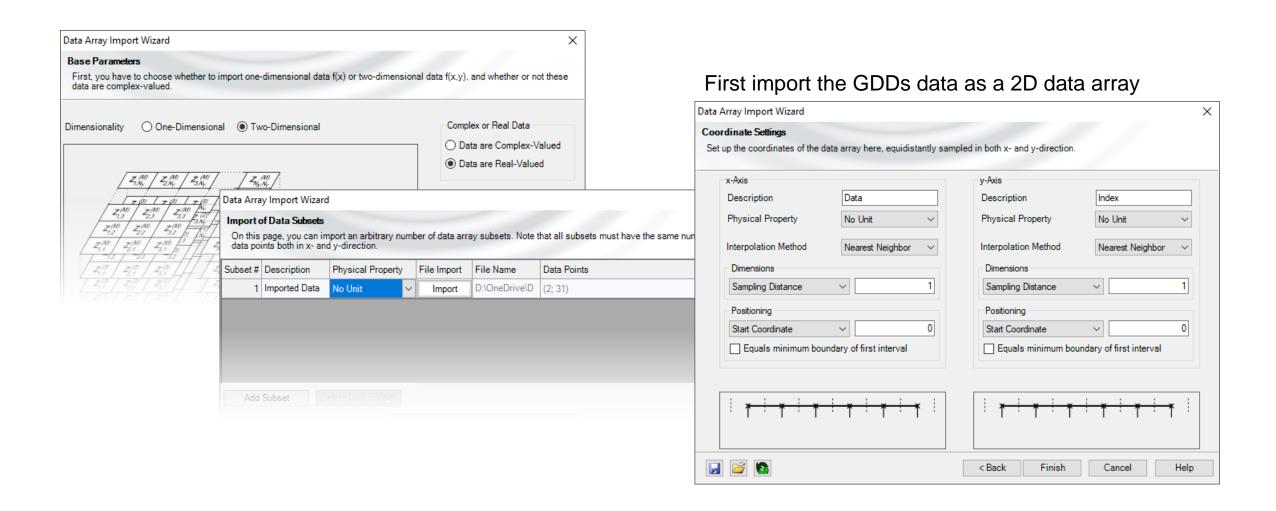


It seems that the original GDDs data are not always sorted according to wavelength. That would leads to certain difficulty for VirtualLab interpretation. Some preparation is then needed.

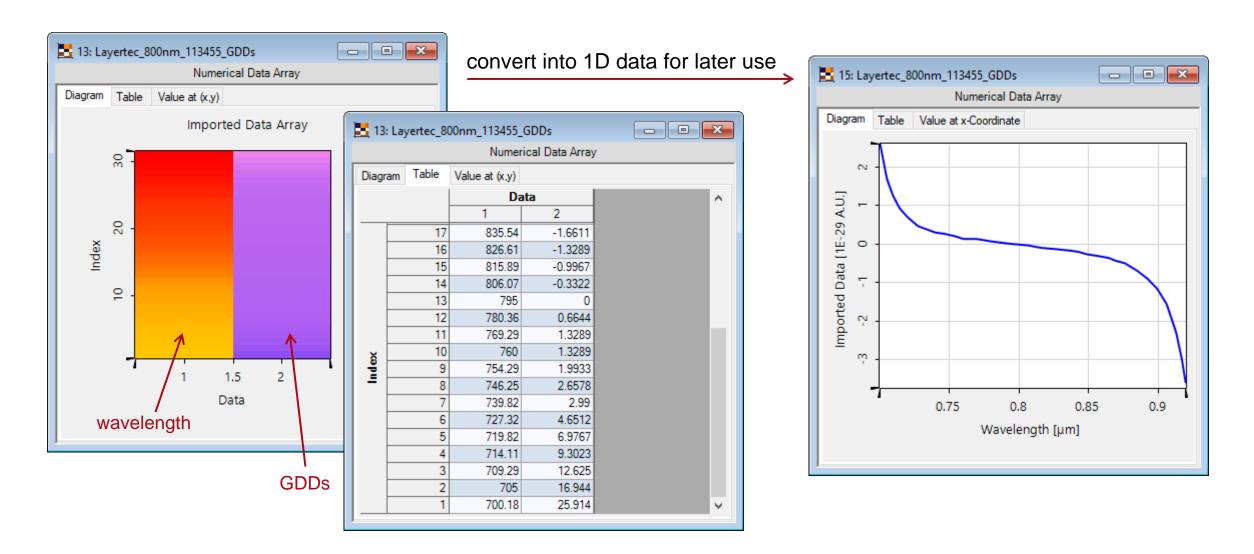
### sorted data according to wavelength

```
E Layertec_CM_103367_GVD_green.txt ☑ E Layertec_CM_103367_GVD_green_sorted.txt ☑
   500.36 55.633
 2 501.78 -75.388
   508.18 141.95
           -129.45
    509.6
   512.45 15.706
   531.65 -56.918
    545.88
           -13.998
   557.26 -26.467
 9 565.8
           -46.217
10 571.49 -69.089
11 577.18 -94.041
12 581.45 -114.83
13 585 -117.95
14 588.56 -112.75
15 591.4
           -77.391
16 594.96
           -31.114
17 597.45
           18.282
18 601.72 65.599
    604.92
           73.401
20 609.54 65.606
21 615.95 19.858
           -34.209
23 629.46 -96.075
24 635.15 -137.66
25 638.35 -143.9
26 641.2 -137.14
```

## **Import of Measured Chirped Mirror Data**

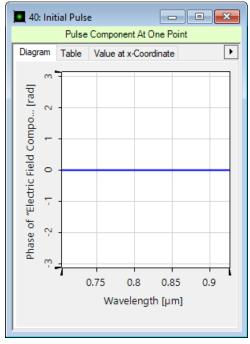


## **Further Processing of Imported Data**

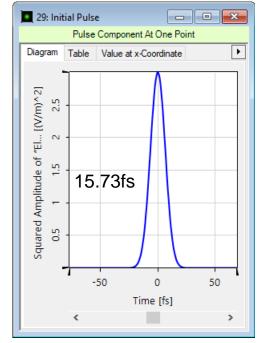


## **Example: Layertec 113455**

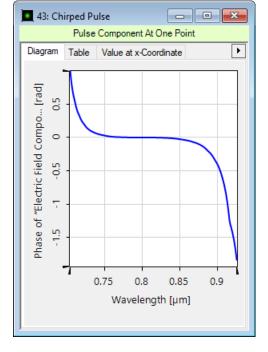
### initial spectral phase



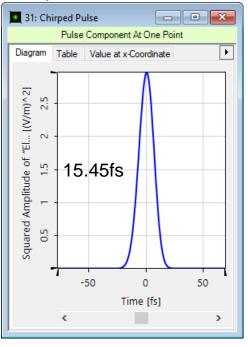
### initial temporal pulse



# spectral phase after chirped mirror

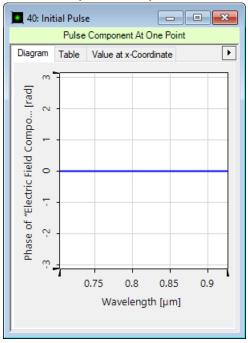


# temporal pulse after chirped mirror

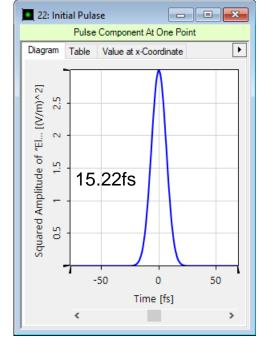


## **Example: Layertec 103367**

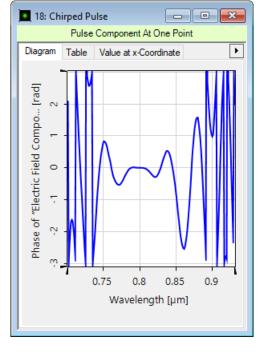
### initial spectral phase



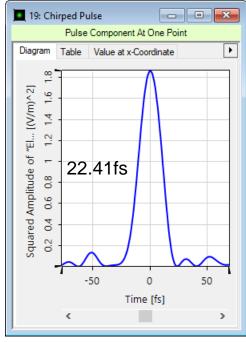
### initial temporal pulse



# spectral phase after chirped mirror



# temporal pulse after chirped mirror



## **Document Information**

| title                           | Chirped Mirror for Ultrashort Pulses             |
|---------------------------------|--|
| document code                   | Demo.13  |
| version                         | 1.0  |
| VL version used for simulations | VirtualLab Fusion Summer Release 2019 (7.6.1.18) |
| category                        | Demo   |
| further reading                 | - Grating Stretcher for Ultrashort Pulses        |