

# **Hilbert-Huang Report**

17-Aug-2020

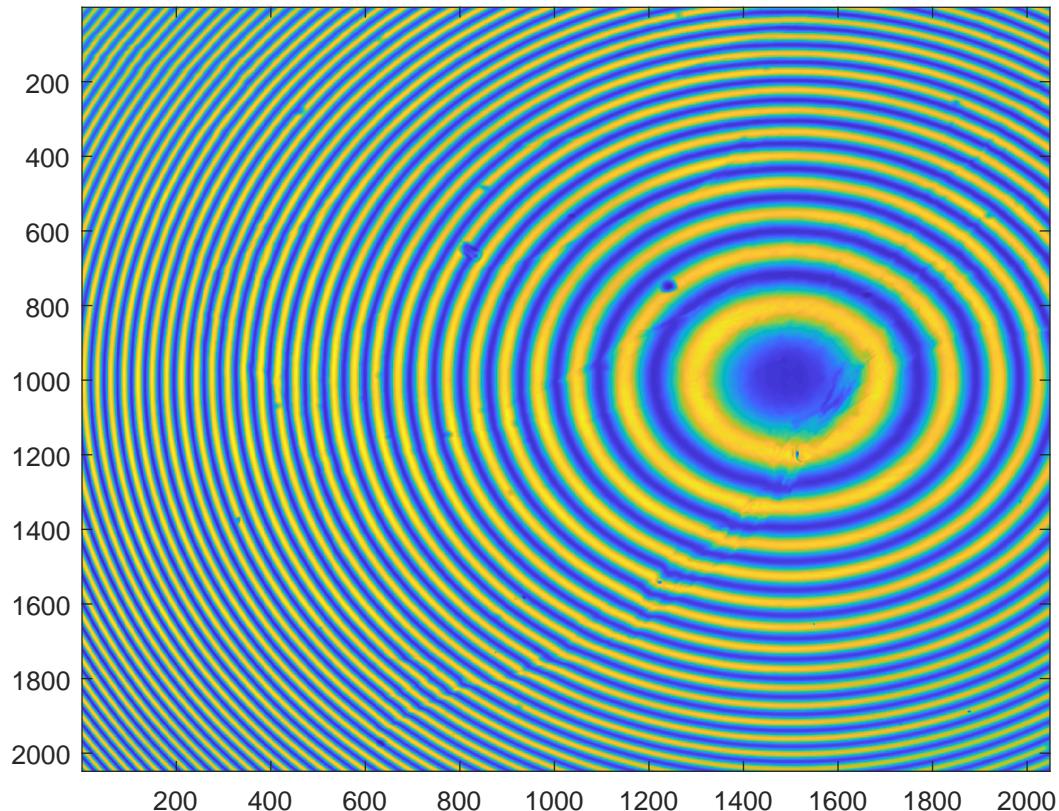
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## Chapter 1. BEMD

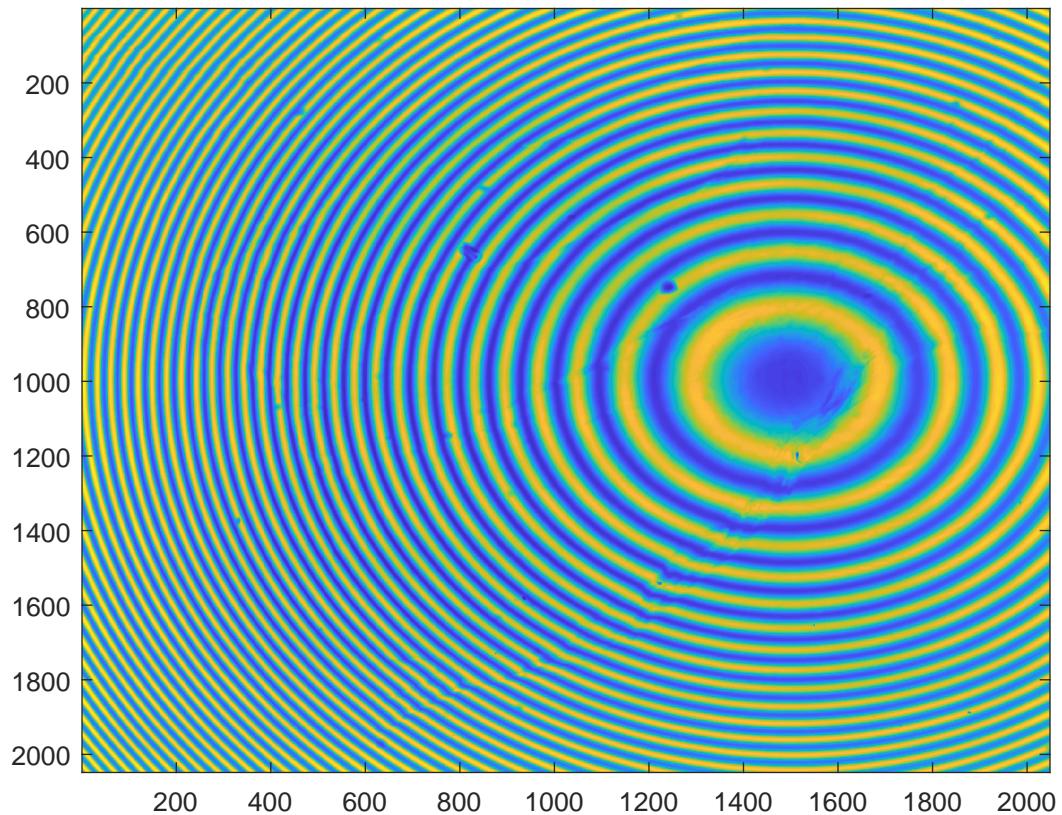
### 1.1. BEMD: Input Image and BM3D



File Name: 532nm\_Interferogram\_1.2NA\_curvature\_1.tif

BM3D with Sigma = 30

## 1.2. BEMD: Composed Image

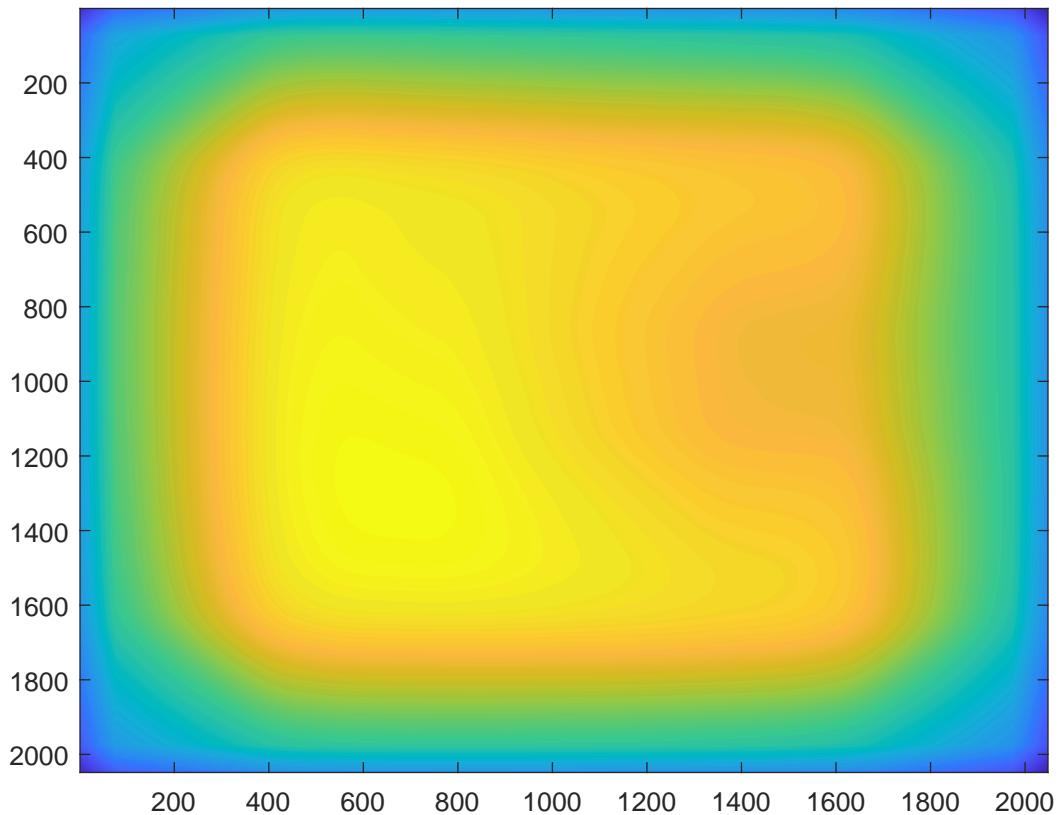


Composition Mode: EFEMD

Cutoff Component Number: 14

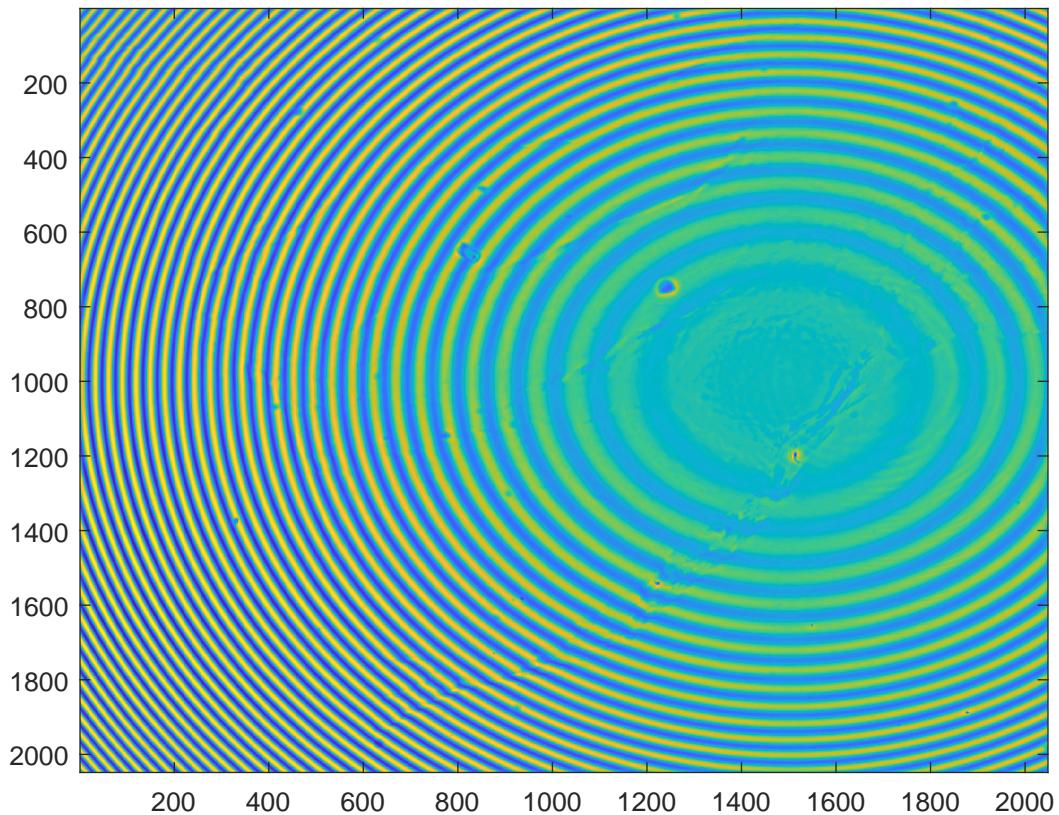
Composed from following components: 1 2 3 4 5

### 1.3. BEMD: Excluded Components

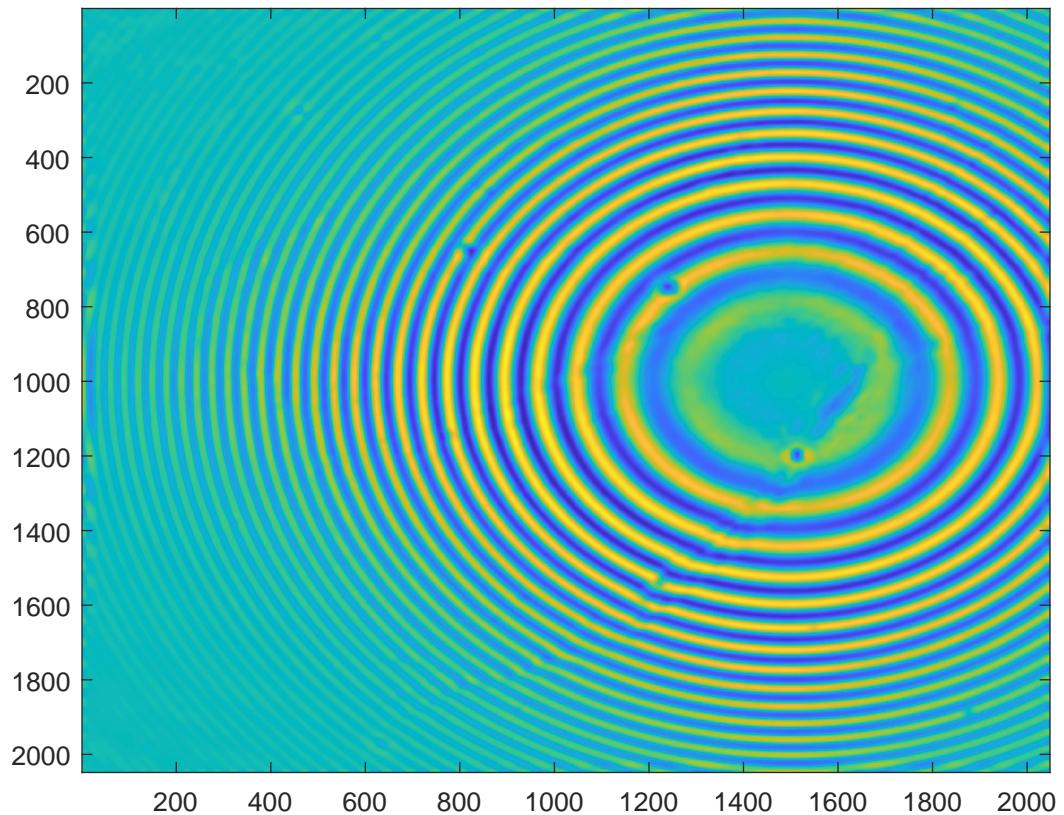


Composed from following components: 6

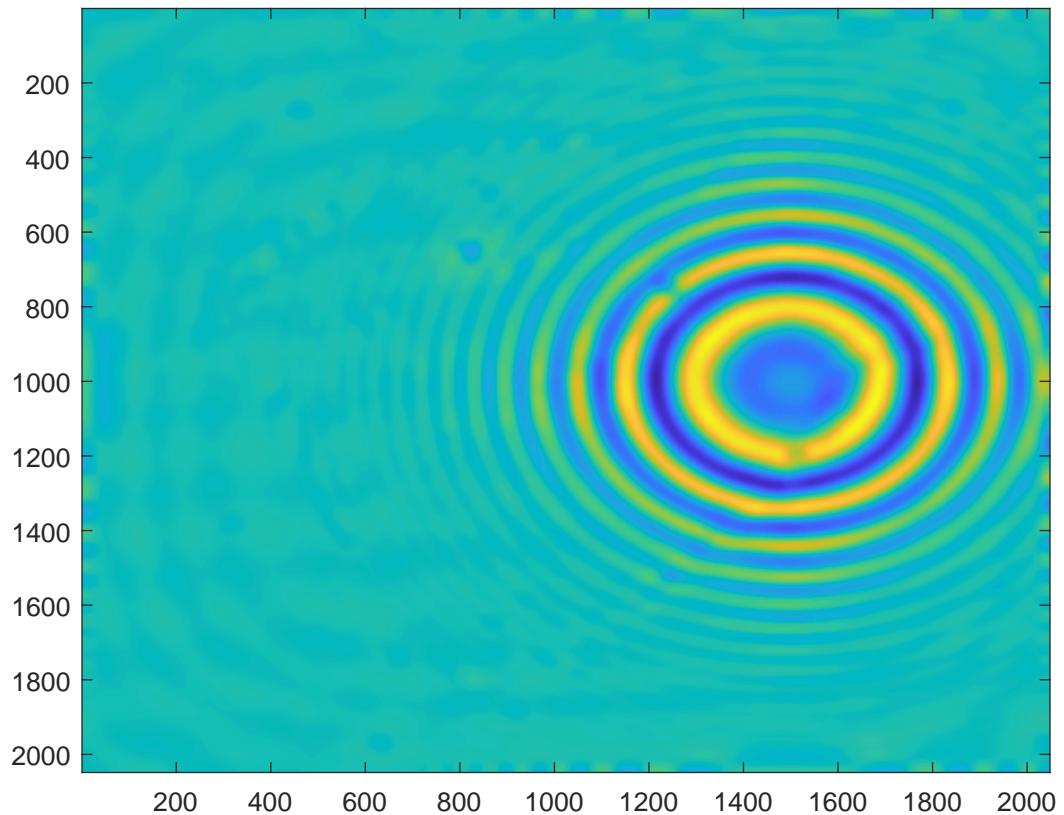
#### 1.4. BEMD: Component 1



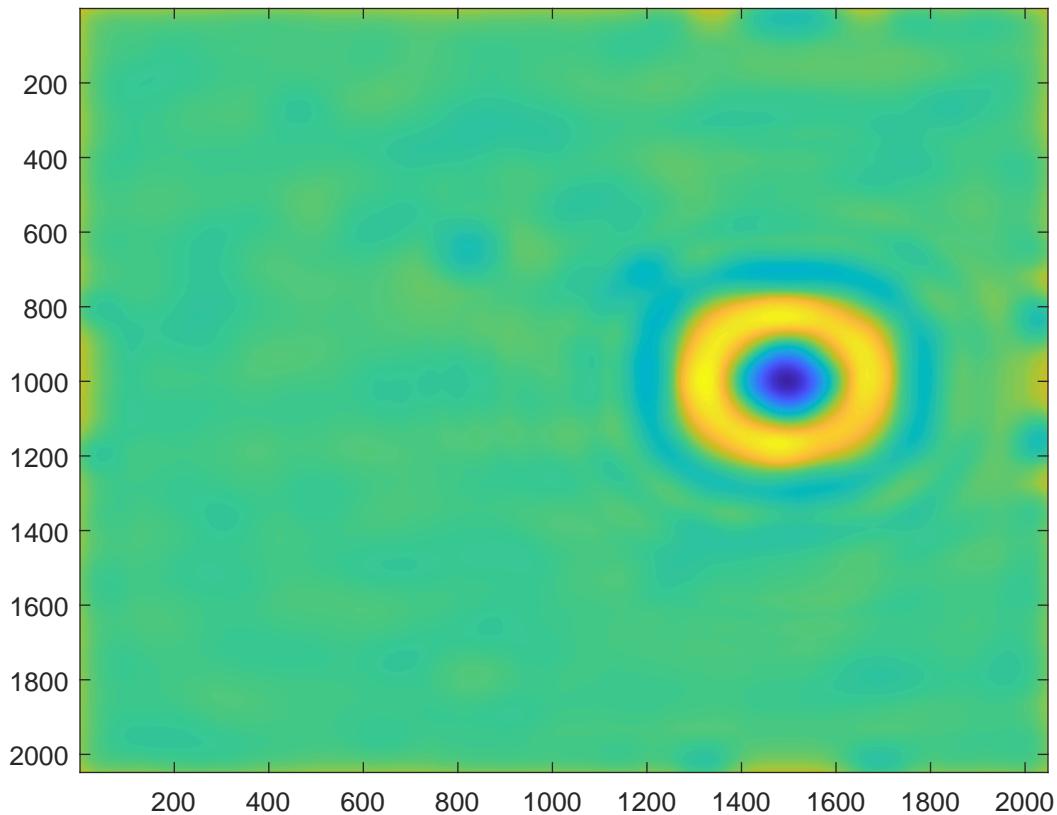
### 1.5. BEMD: Component 2



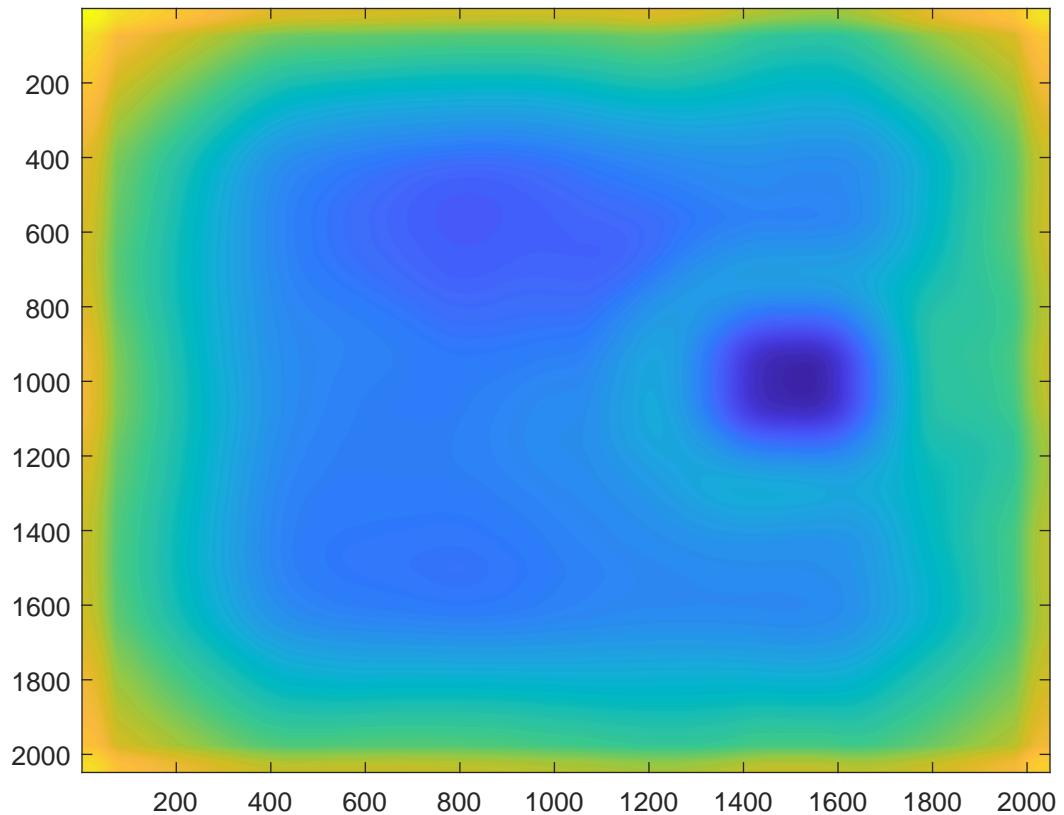
## 1.6. BEMD: Component 3



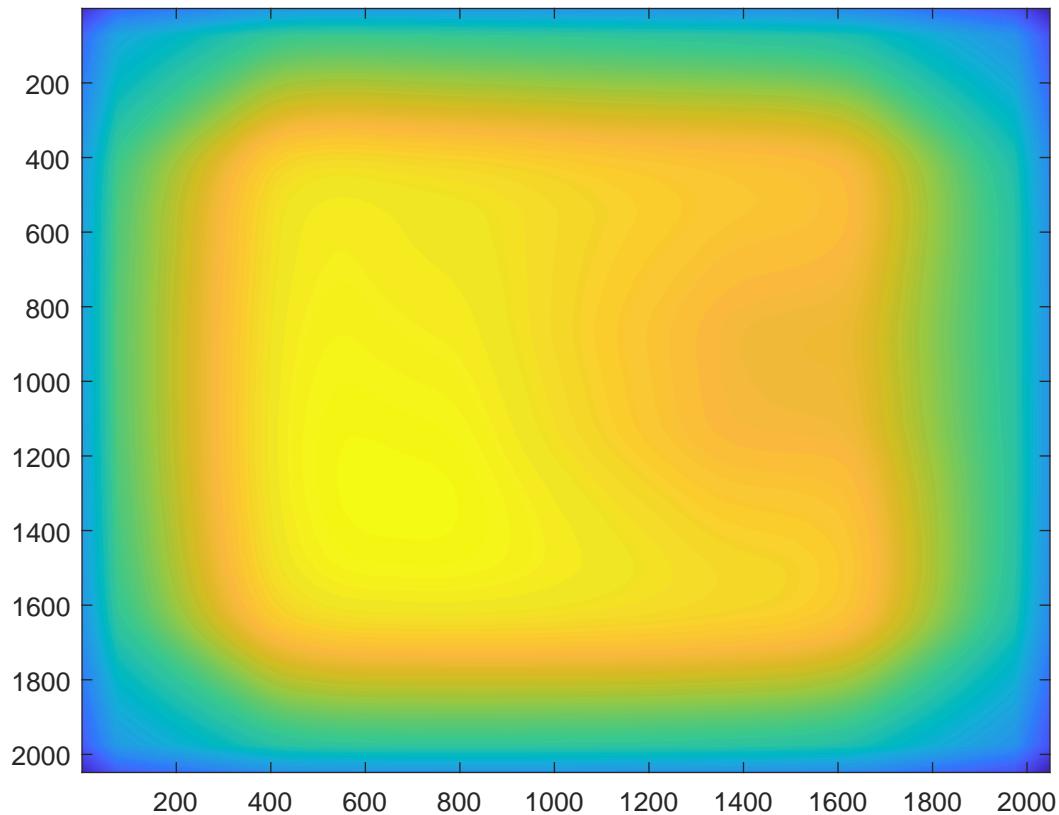
### 1.7. BEMD: Component 4



## 1.8. BEMD: Component 5



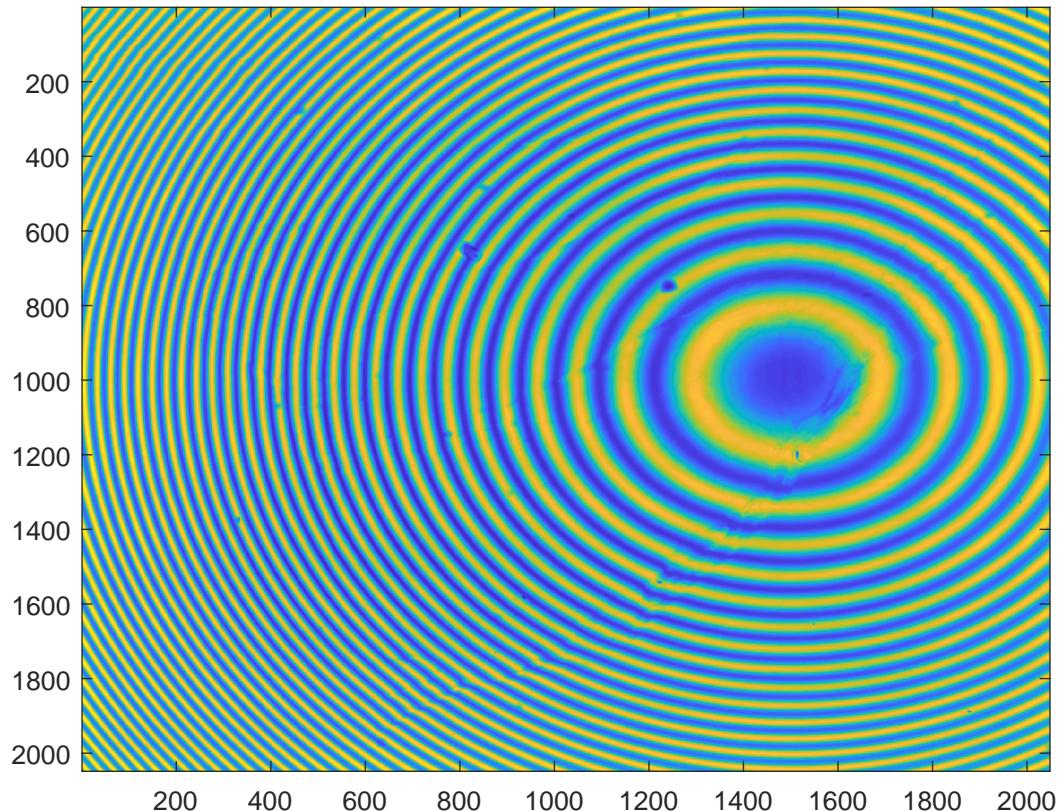
## 1.9. BEMD: Residuum



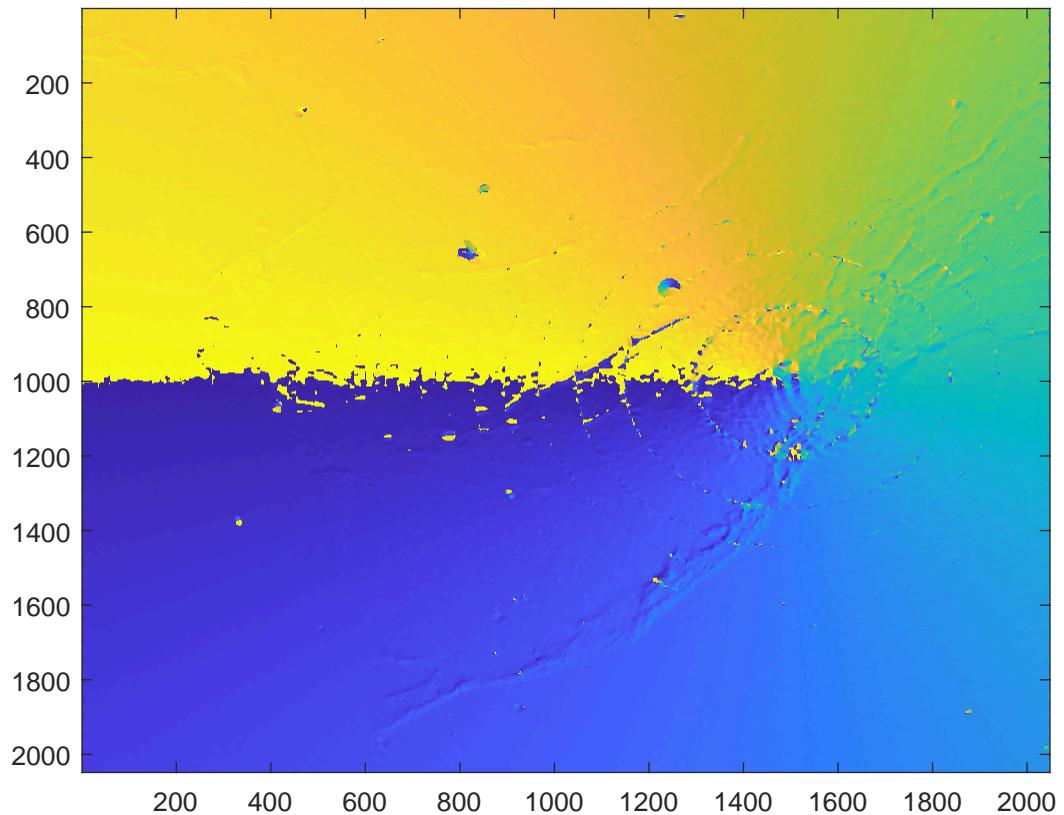
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## Chapter 2. HVT

### 2.1. HVT: Input Image

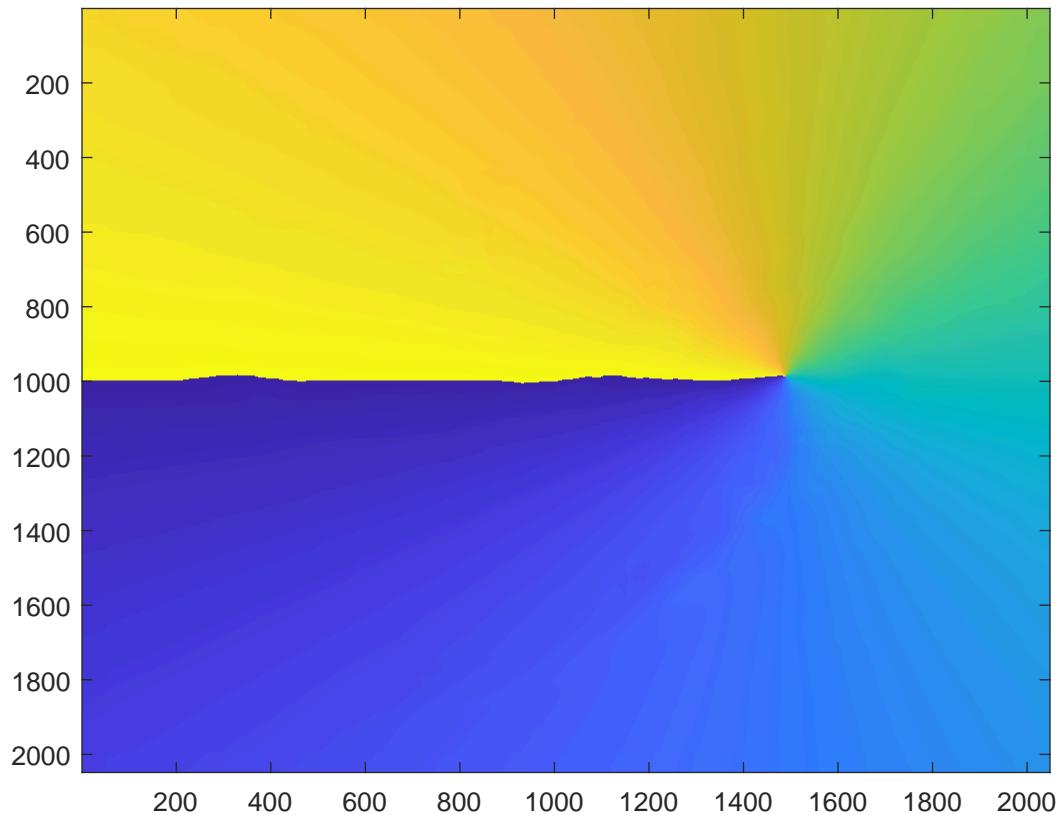


## 2.2. HVT: Orientation Map mod(2pi)



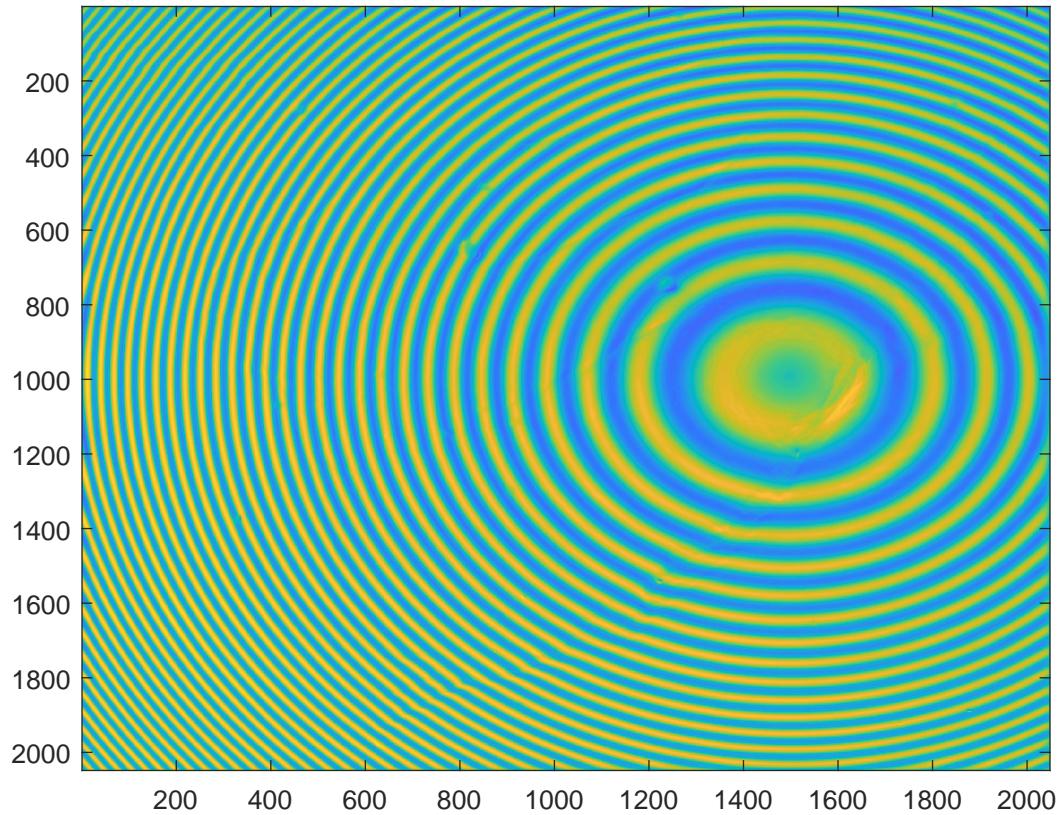
Orientation map window size: 5

### 2.3. HVT: Orientation Map mod(2pi) Smoothed

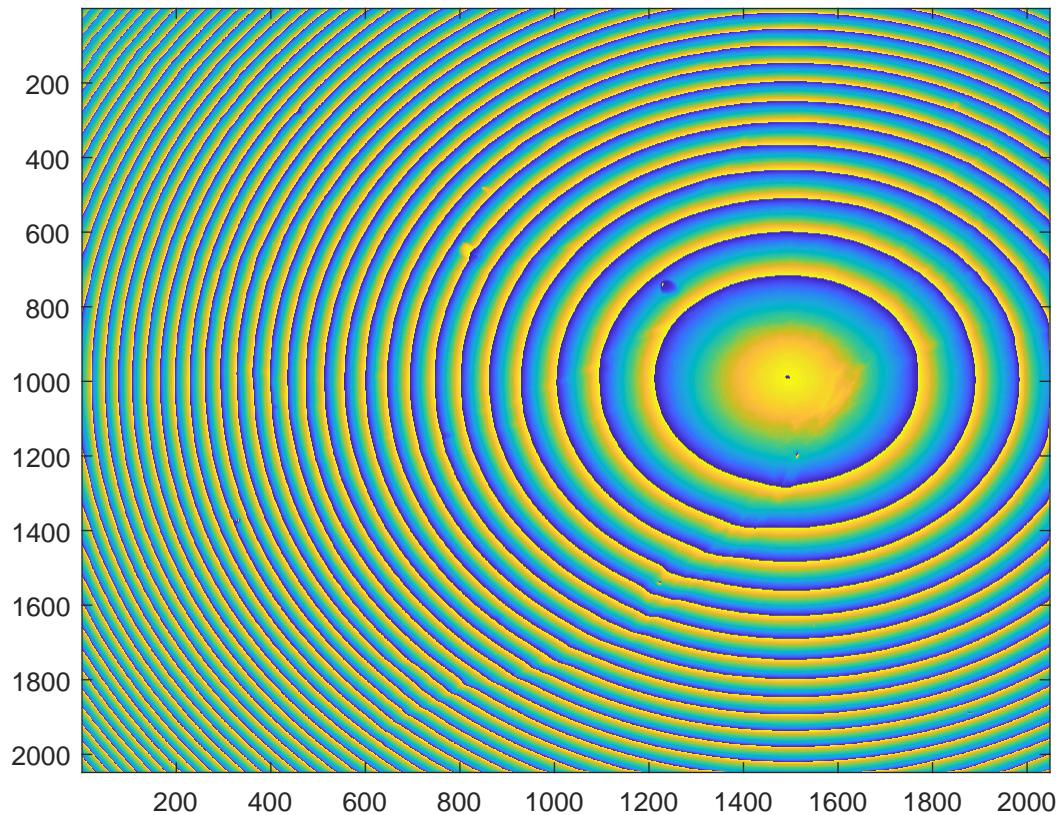


Filter: Mean, Window Size = 100

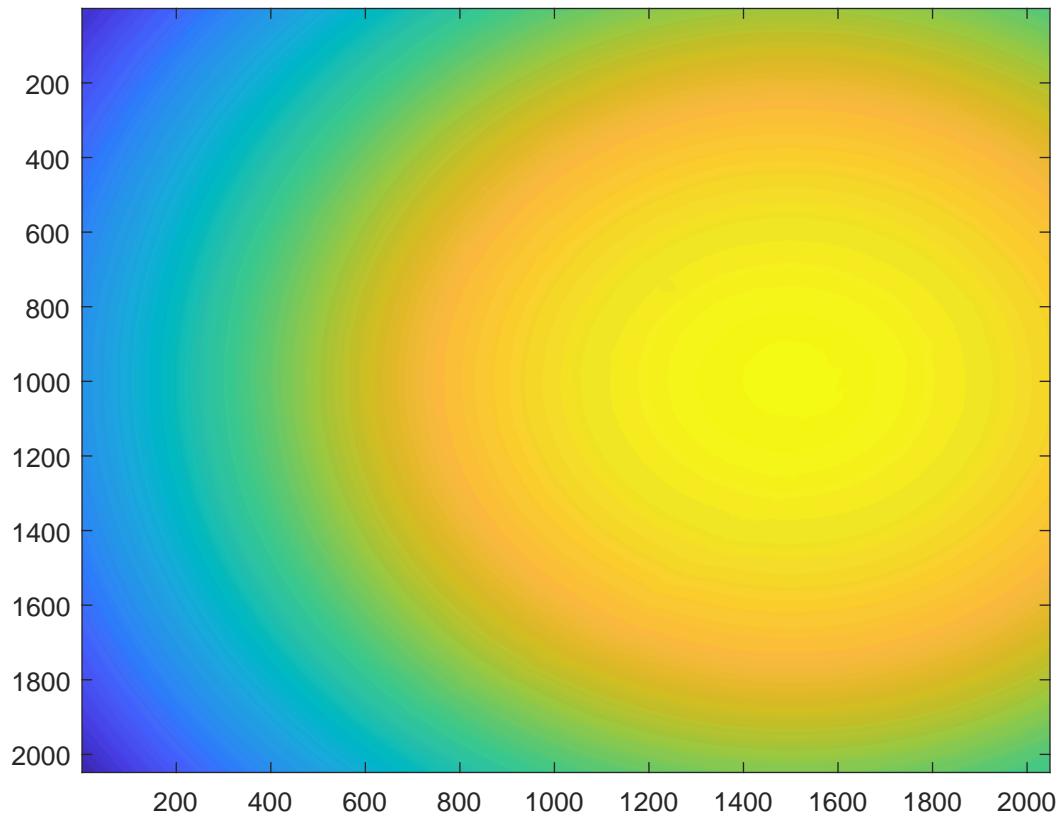
## 2.4. HVT: Quadrature Fringe Pattern



## 2.5. HVT: Phase



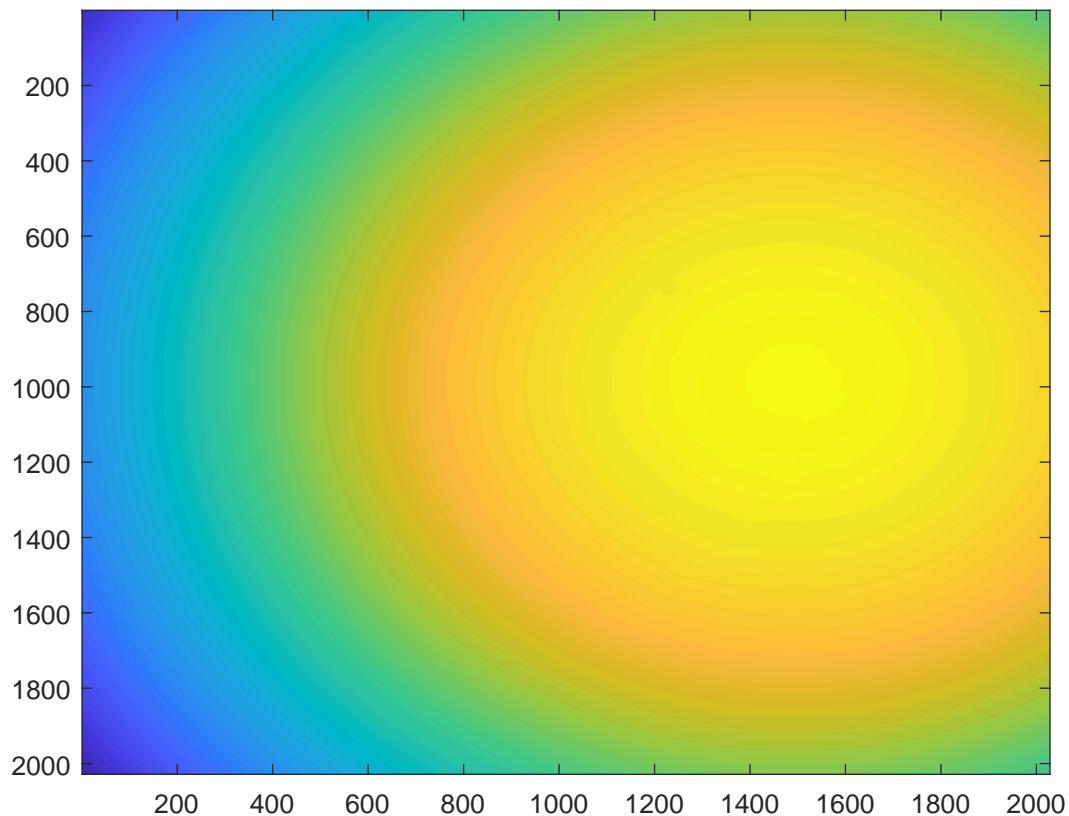
## 2.6. HVT: Unwrapped Phase



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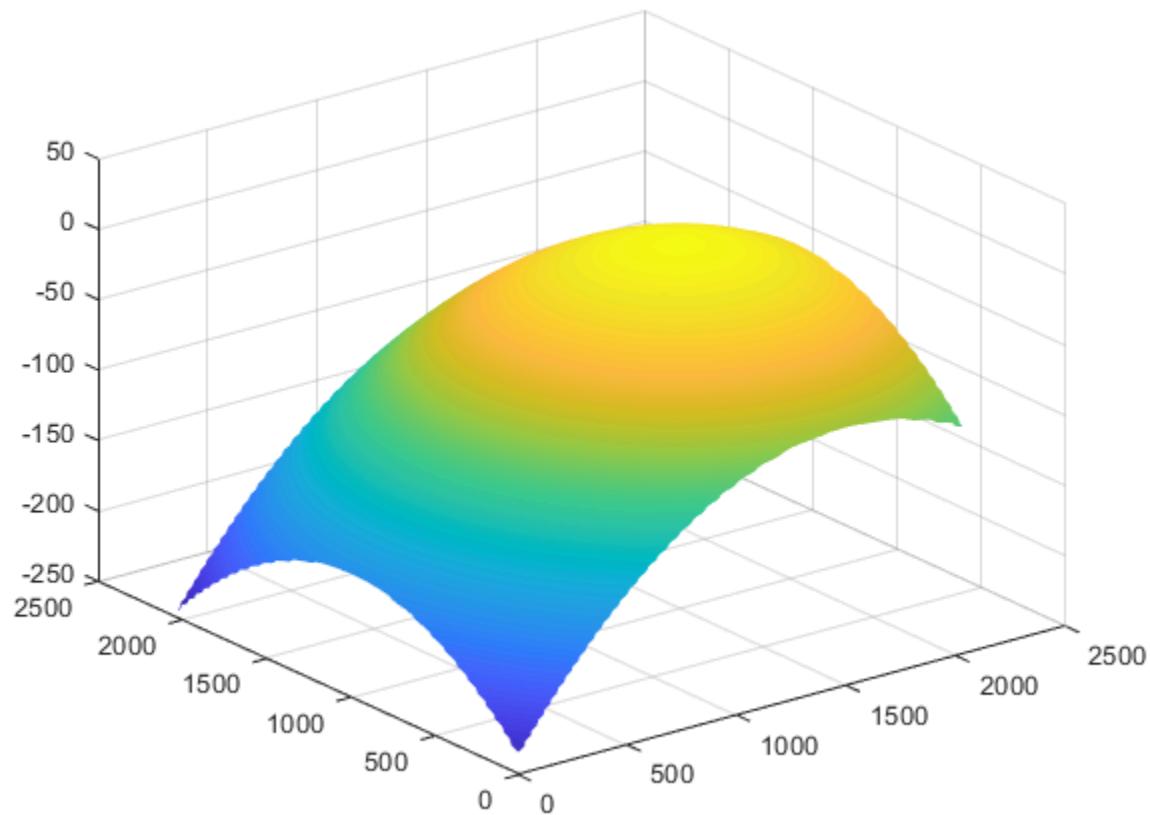
## Chapter 3. Surface Fitting

### 3.1. Surface Fitting: Input Image and border cutting

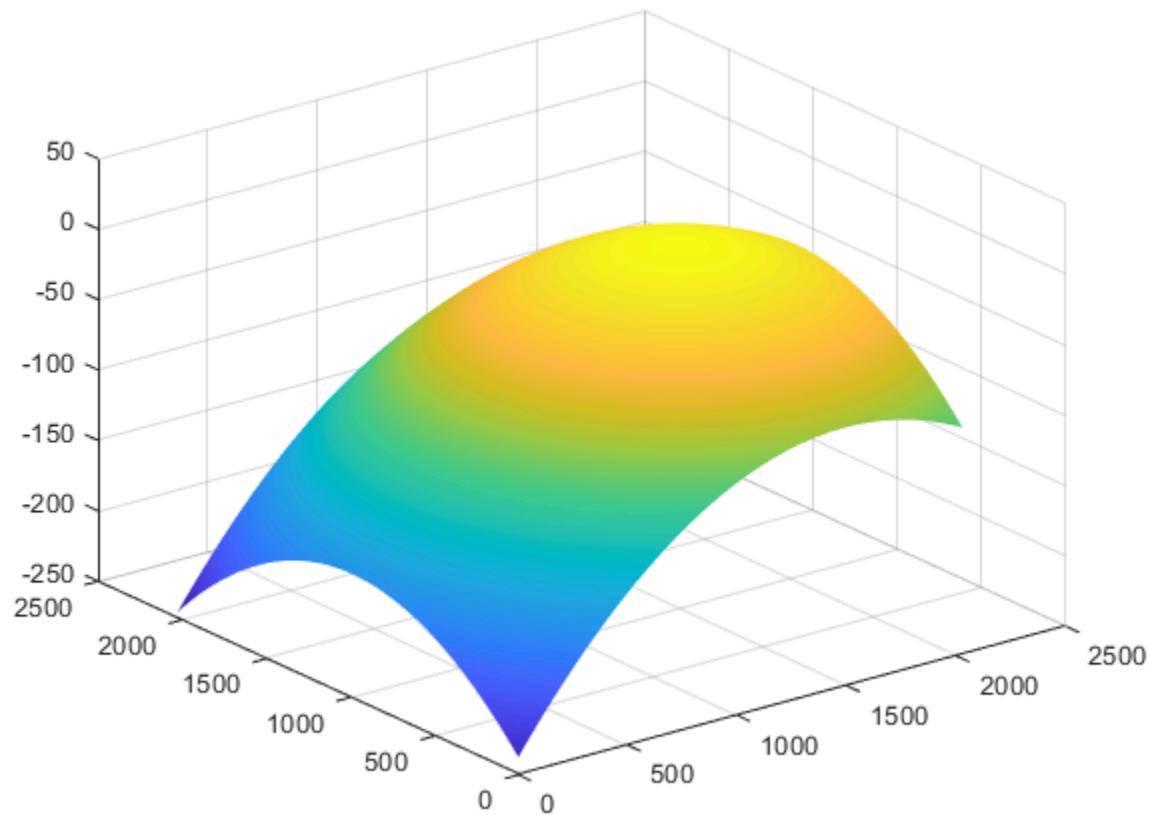


Border Cutting Pixels: 10

### 3.2. Surface Fitting: Unwrapped Phase



### 3.3. Surface Fitting: Surface Fit



### 3.4. Surface Fitting: Subtraction

