

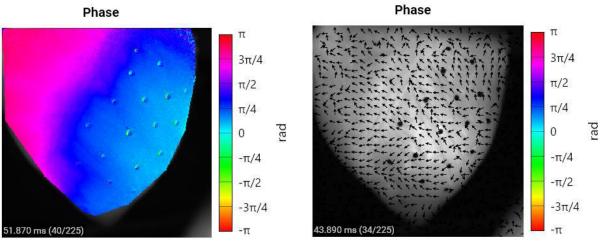
## 8-3-5. Phase analysis (add phase analysis layer)

Select [Analyze]-[Add phase analysis layer] to create and display a phase map.

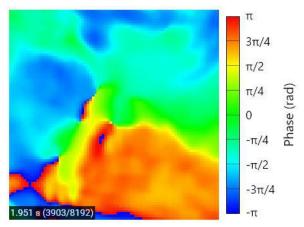
Phase is calculated using formula below, where x(t) is the input time signal, H the Hilbert transform and z(t) a complex signal.

$$z(t) = x(t) + i[H(x(t))]$$
  
$$\phi(t) = phase(z(t))$$

Phase



Phase



Operation	Description
Mouse over	Coordinates and phase of that point are displayed in upper left of map.
Scroll mouse wheel	Zoom in/out map
Right click	Export data: Save numerical data (phase) in CSV file format Export figure: Save phase map in image format (PNG/JPG/BMP) Export video: Save the phase map in video format (avi).

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## Video playback of phase map

It is also possible to display phase map as a movie.

▶ = •	0.000 / 4.080 s 🕥0.100
>	Click to start playing video.
11	Click to stop playing the video.
•	Display frame position. Also, you can move frame position by dragging ● with mouse or clicking bar.
0.303 / 4.080 s	Time of display frame and total time are displayed.
Play speed 1/1000 1 1000	Click to display. Drag • with mouse to specify video playback speed.
1.000	Video playback speed is displayed. You can also specify video playback speed by inputting.



