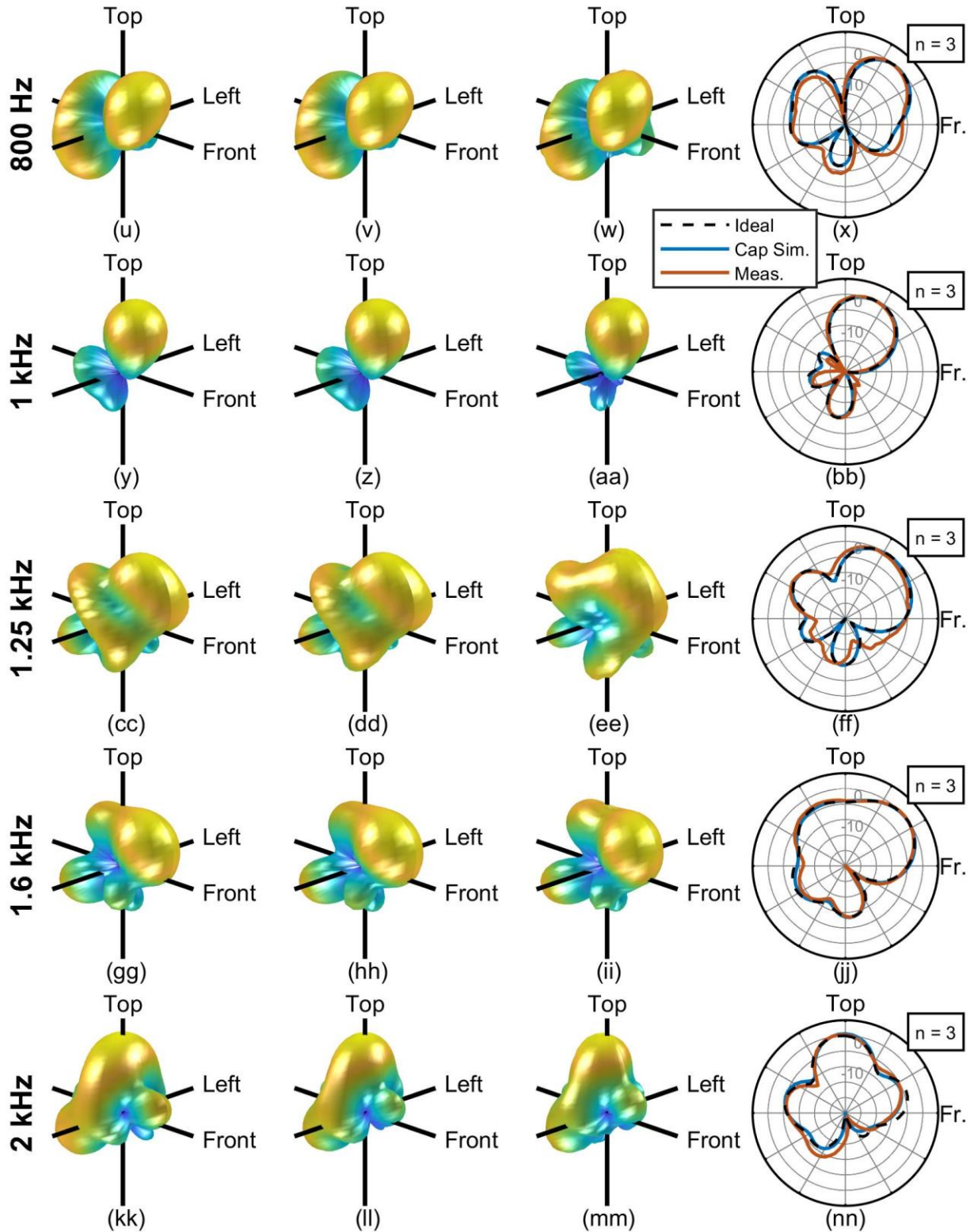


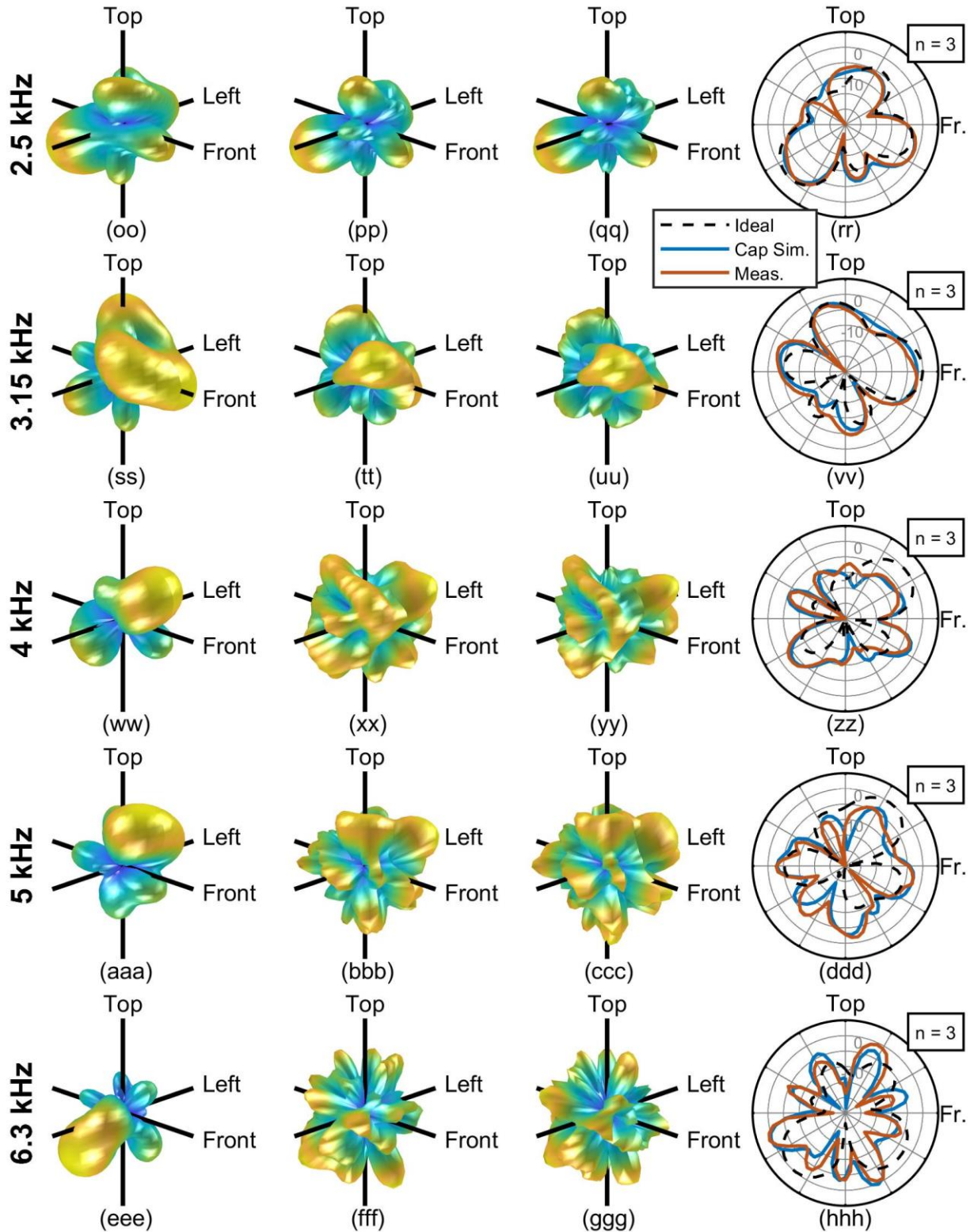
Instrument: **Bassoon**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



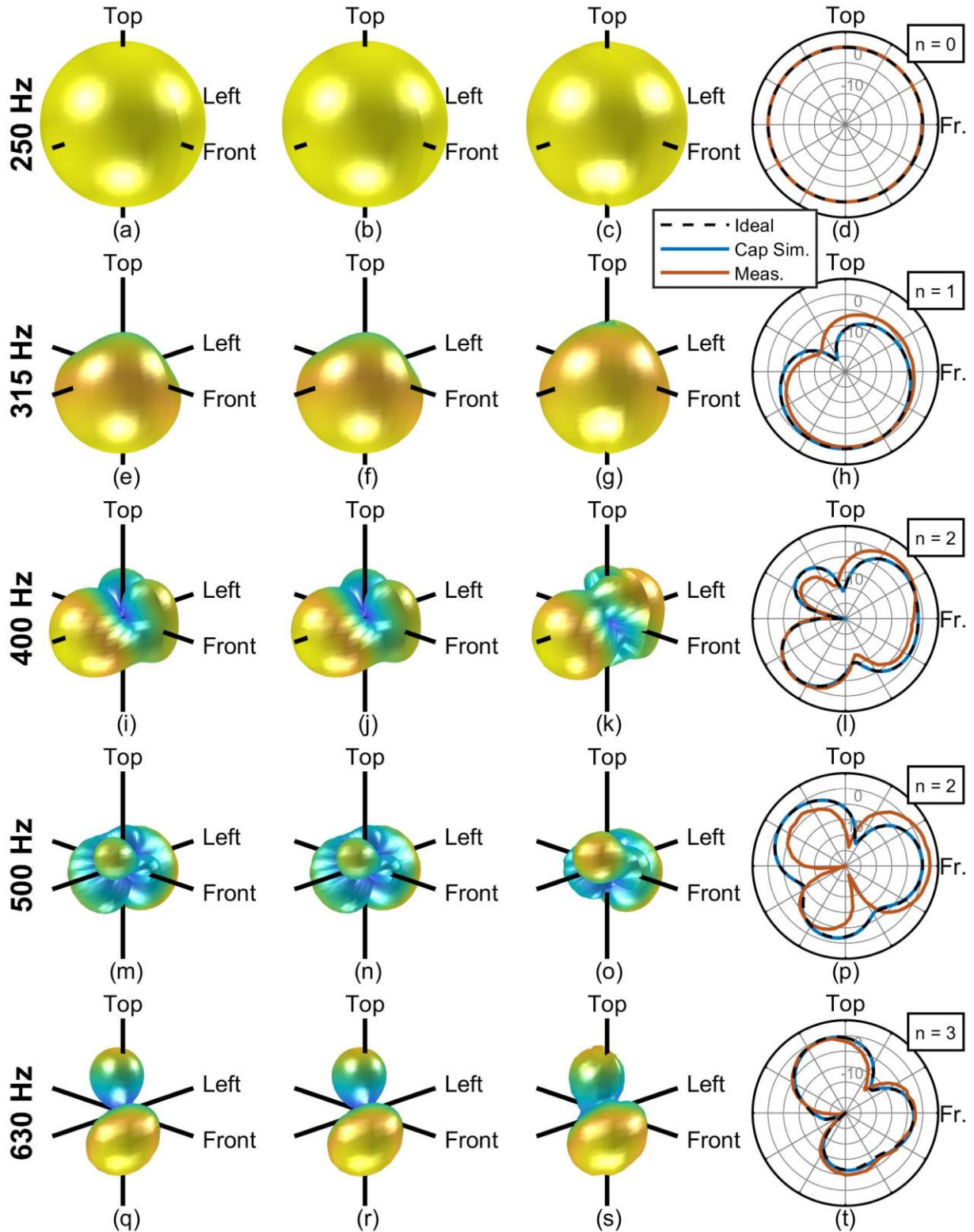
Instrument: **Bassoon**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



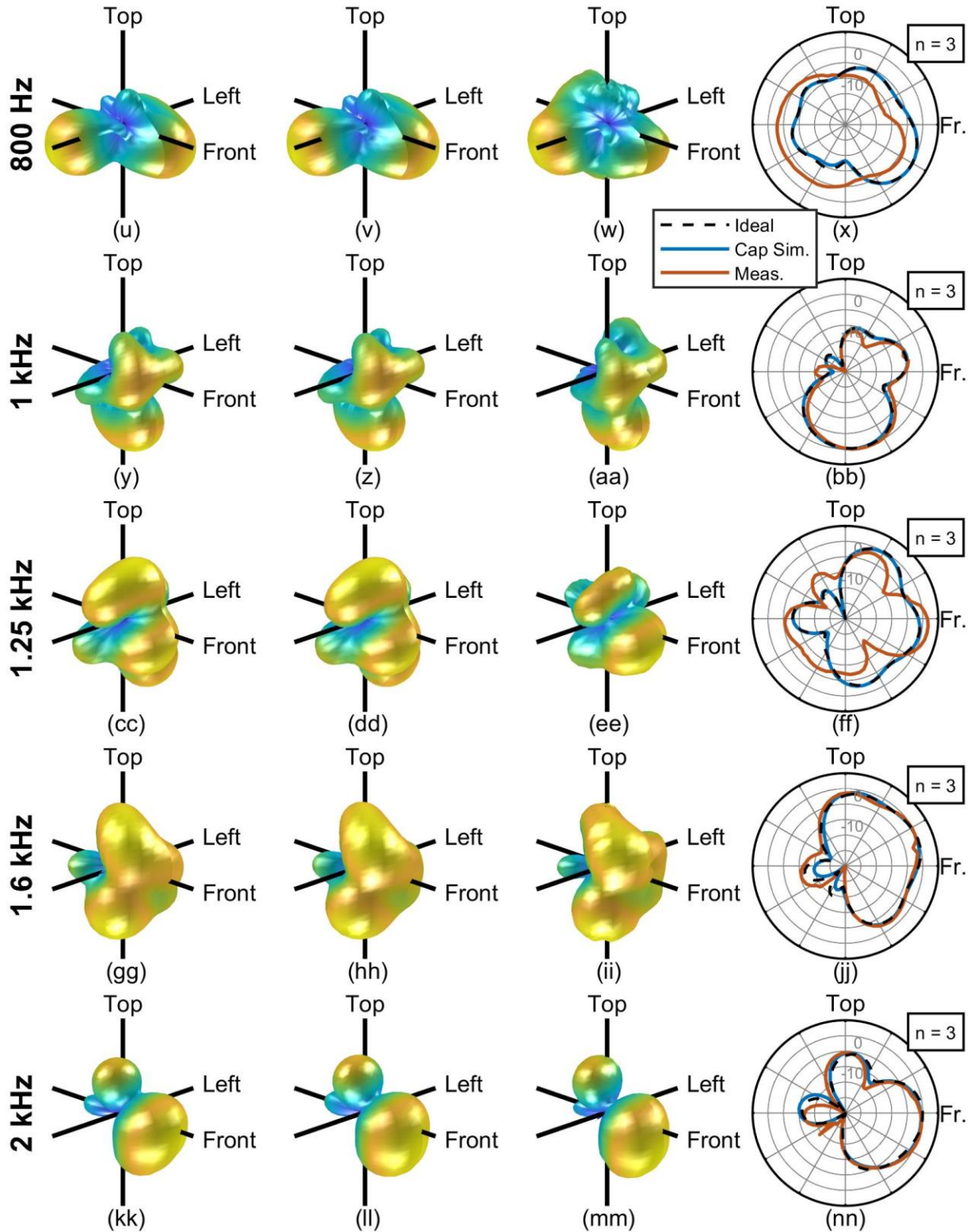
Instrument: **Bassoon**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



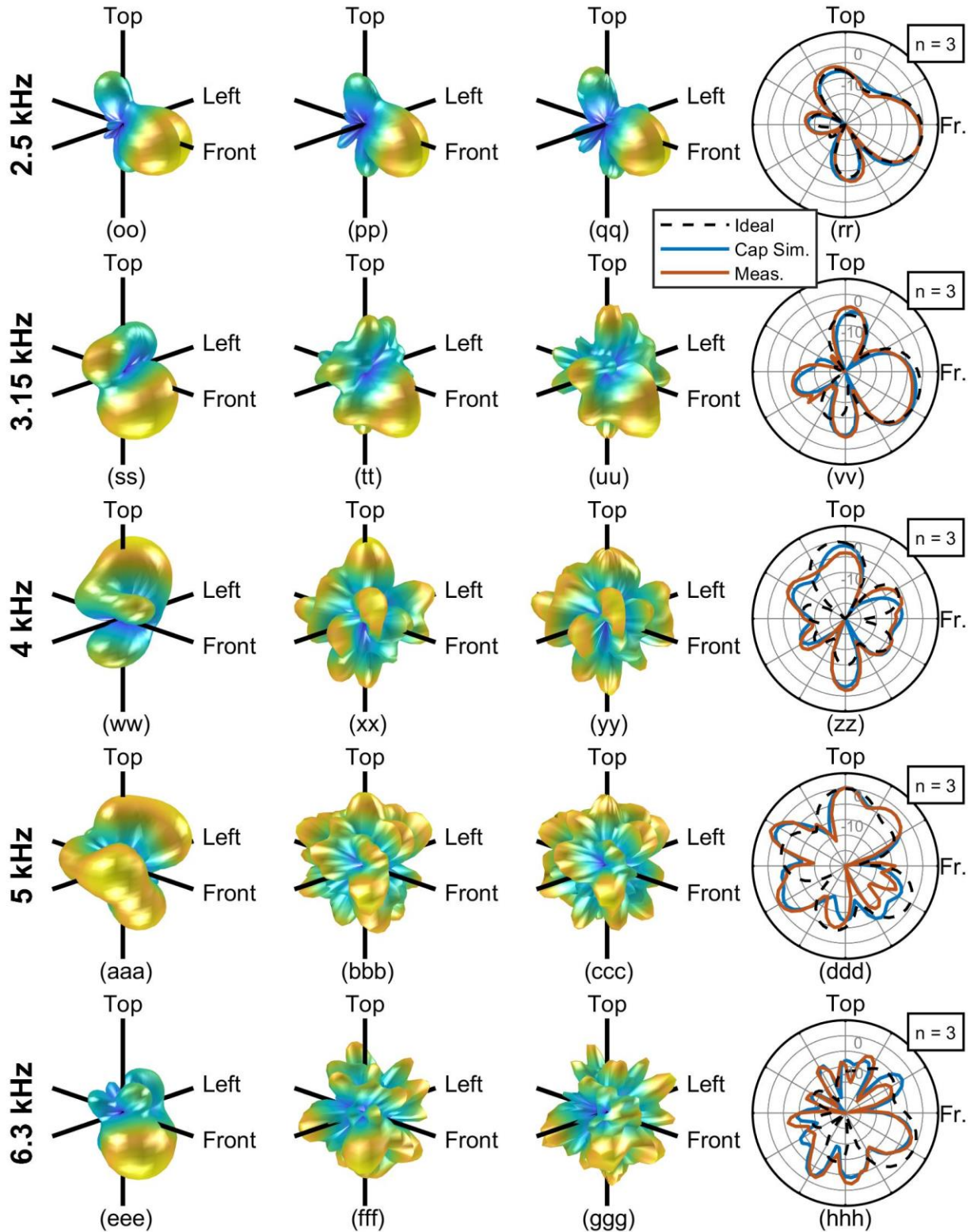
Instrument: **Cello**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



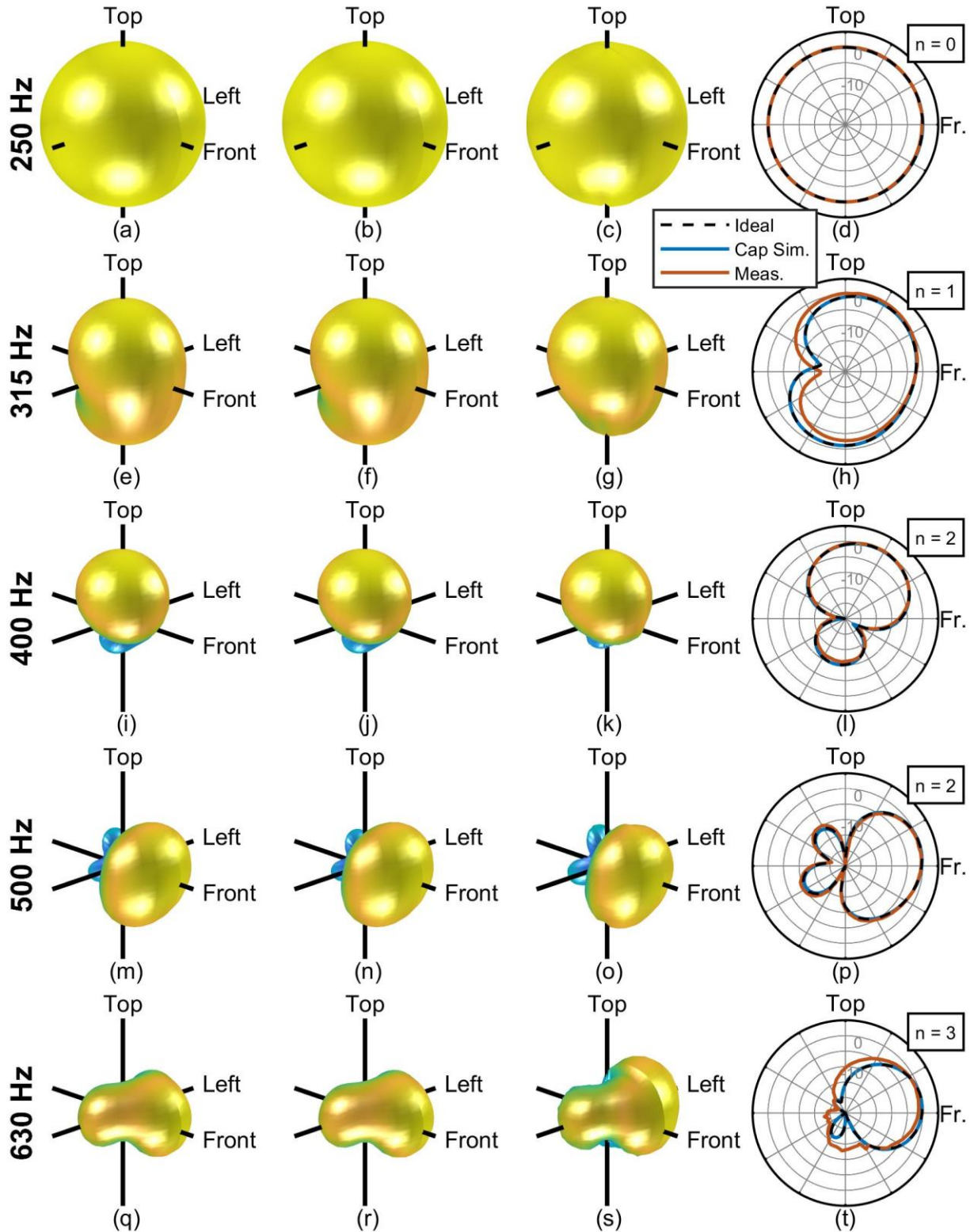
Instrument: **Cello**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



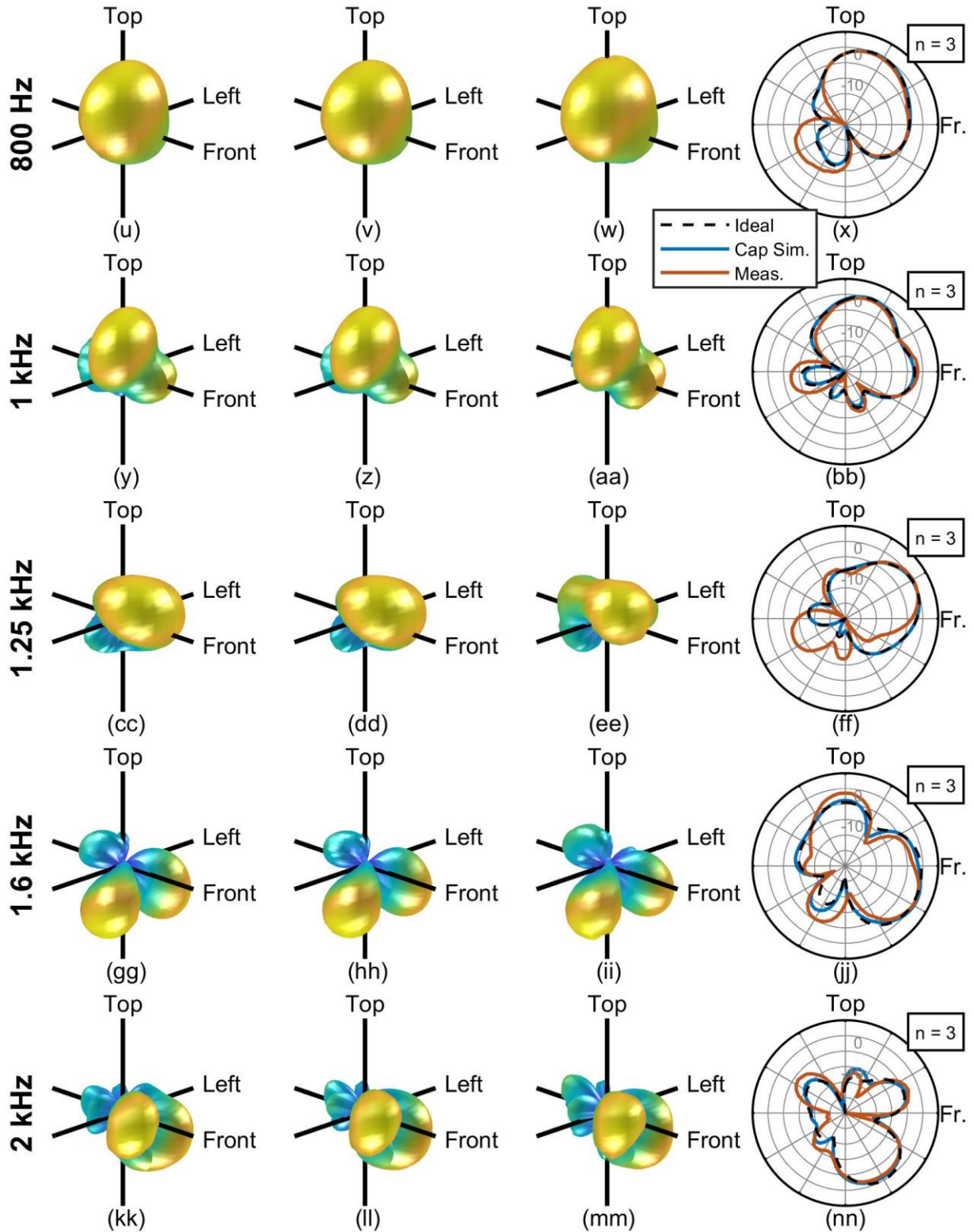
Instrument: Cello

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



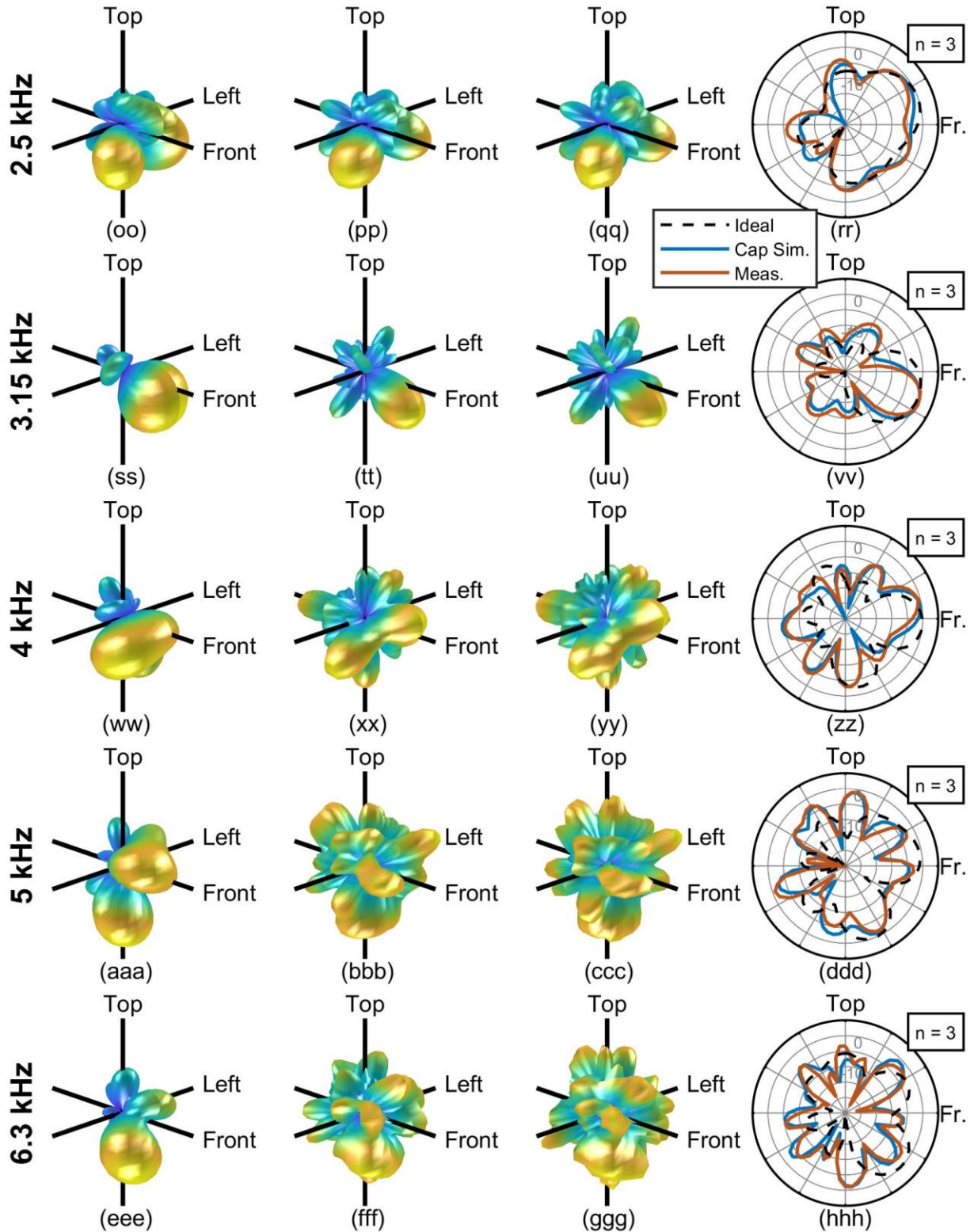
Instrument: **Clarinet**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



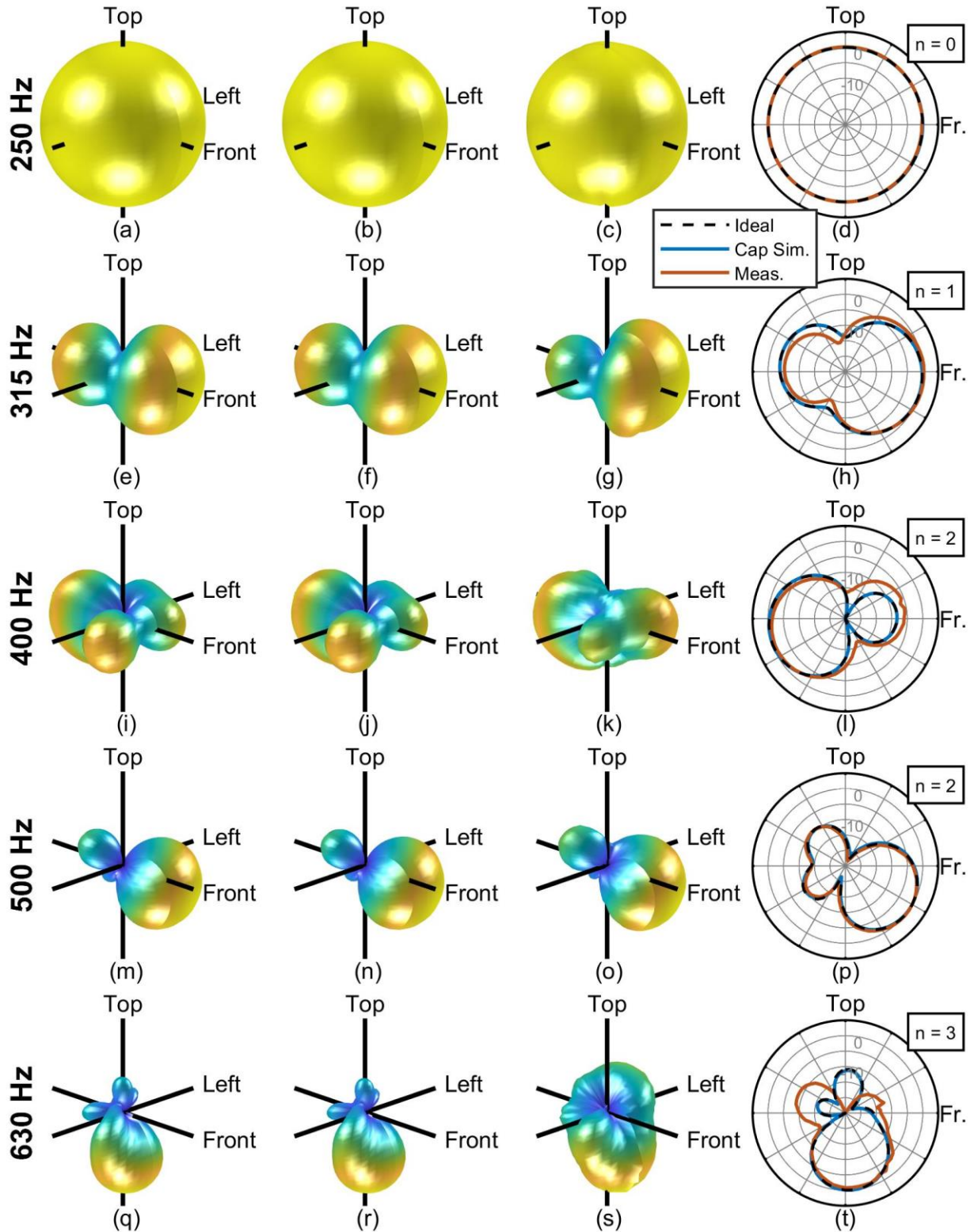
Instrument: **Clarinet**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



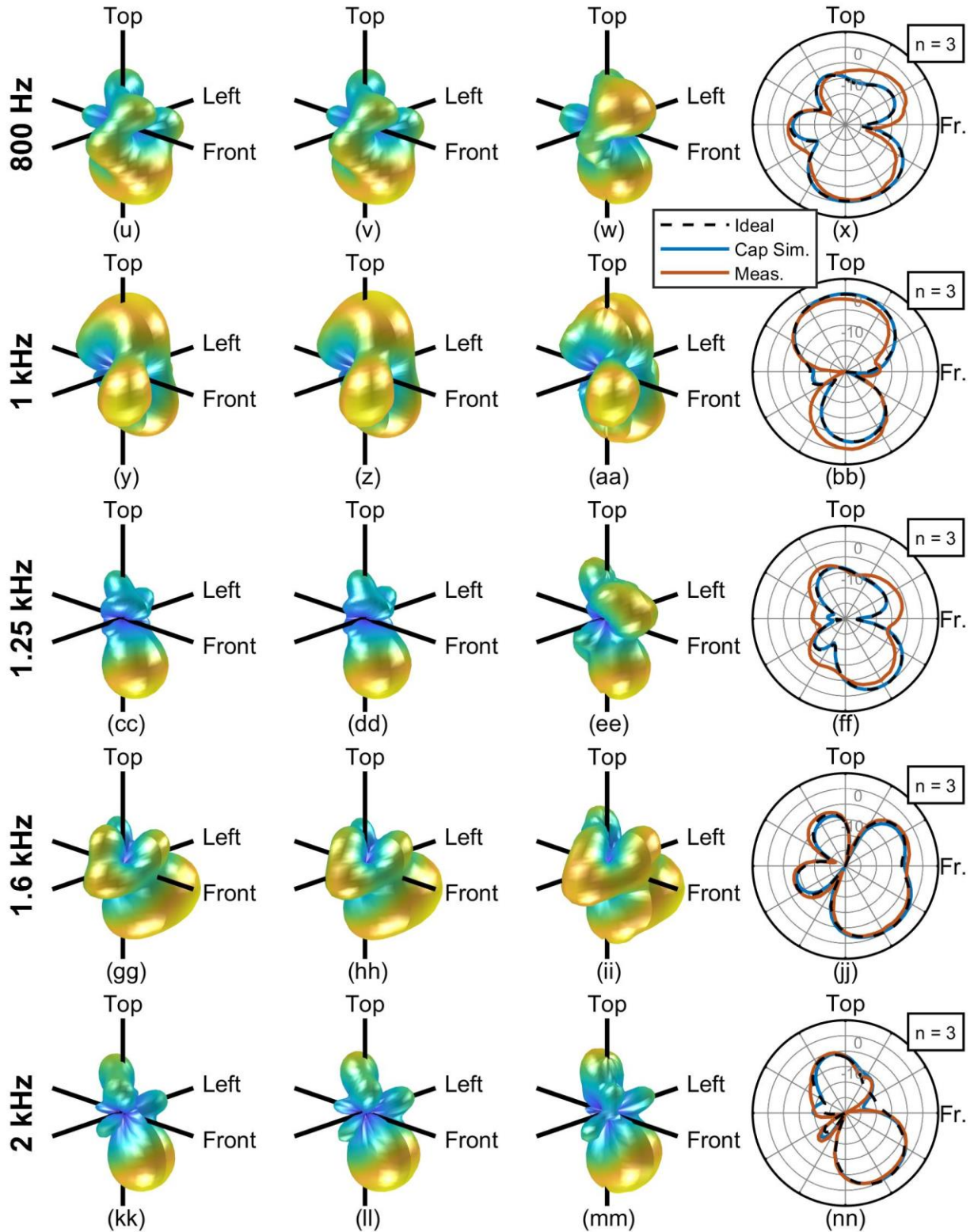
Instrument: **Clarinet**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



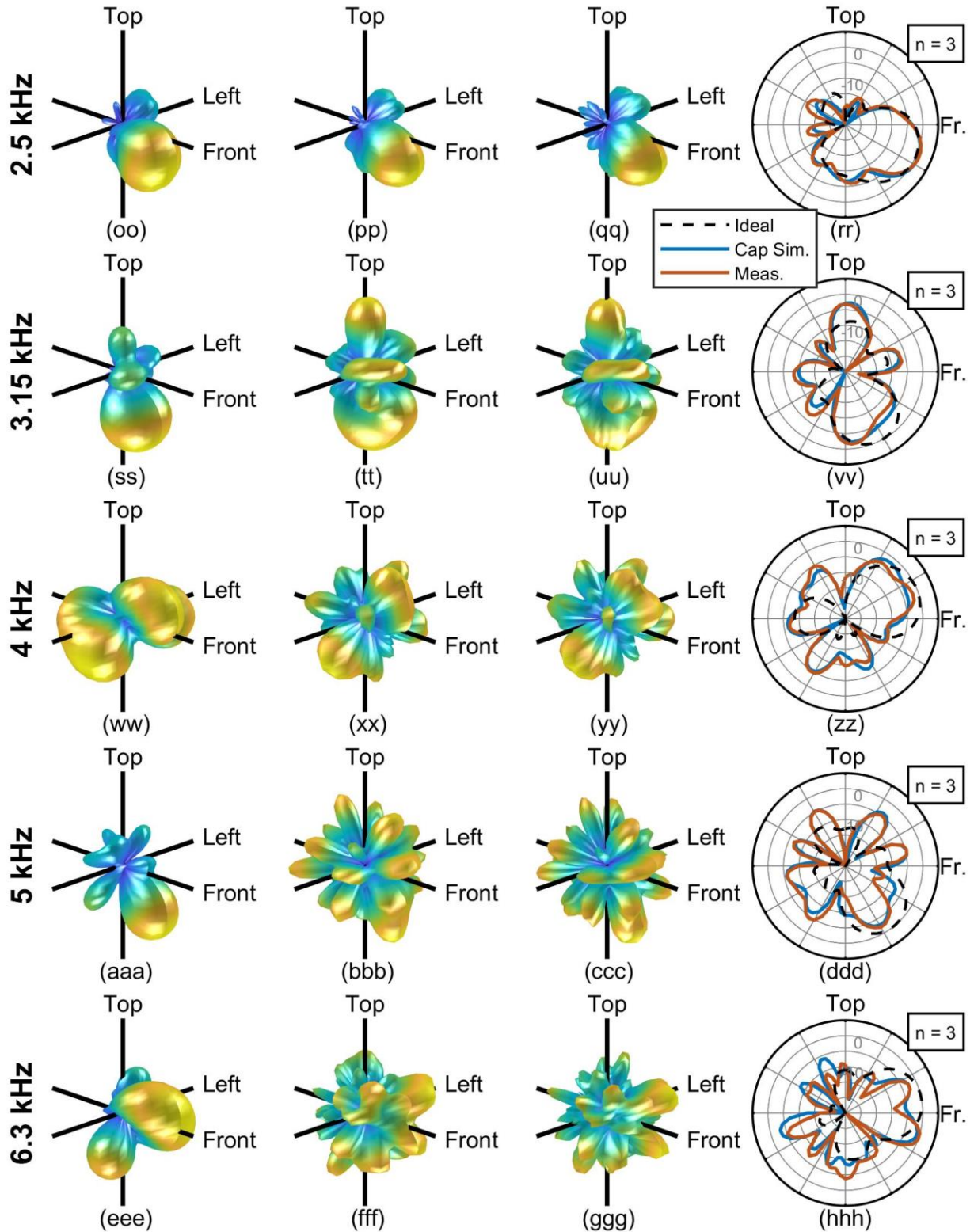
Instrument: **Double Bass**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



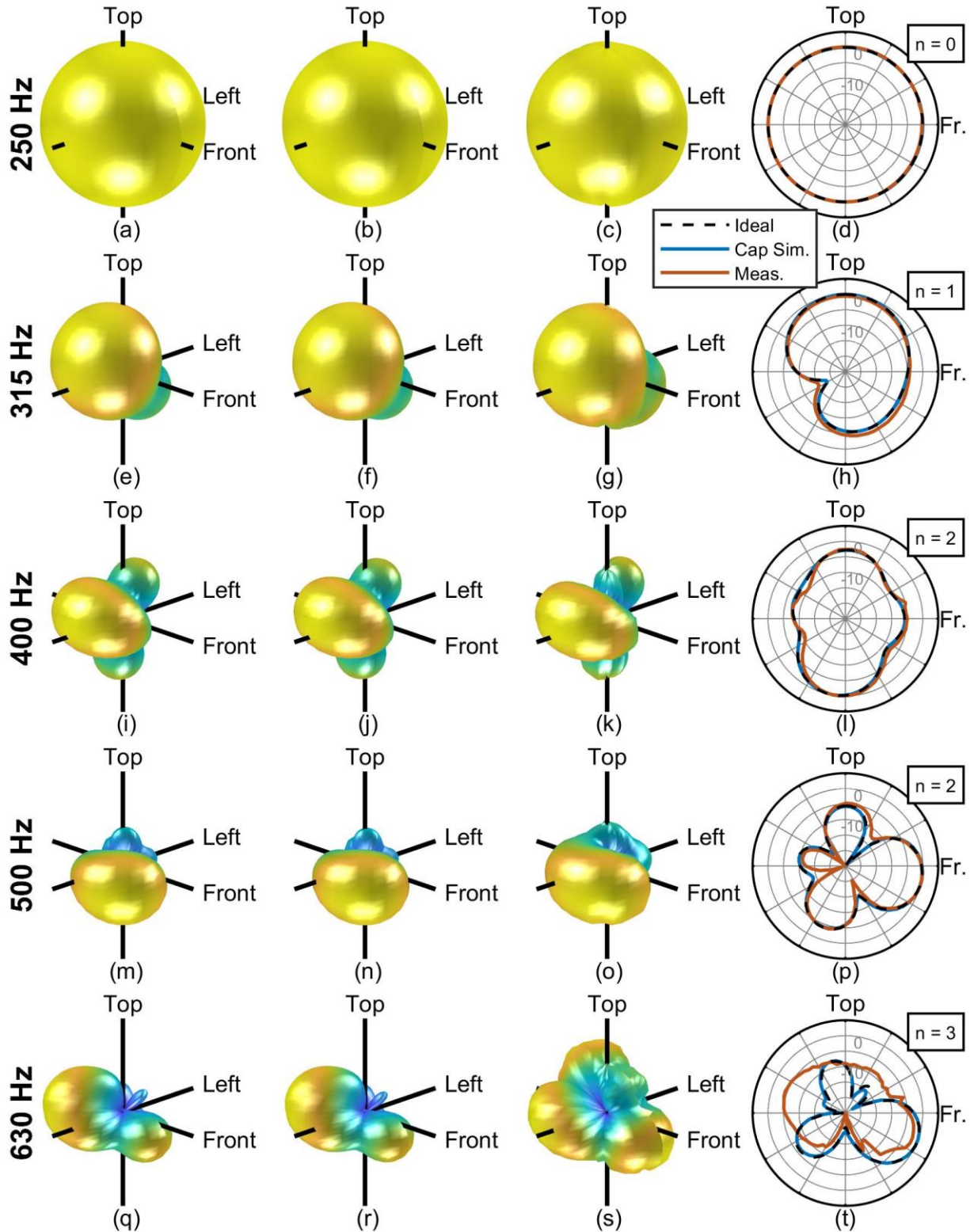
Instrument: Double Bass

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



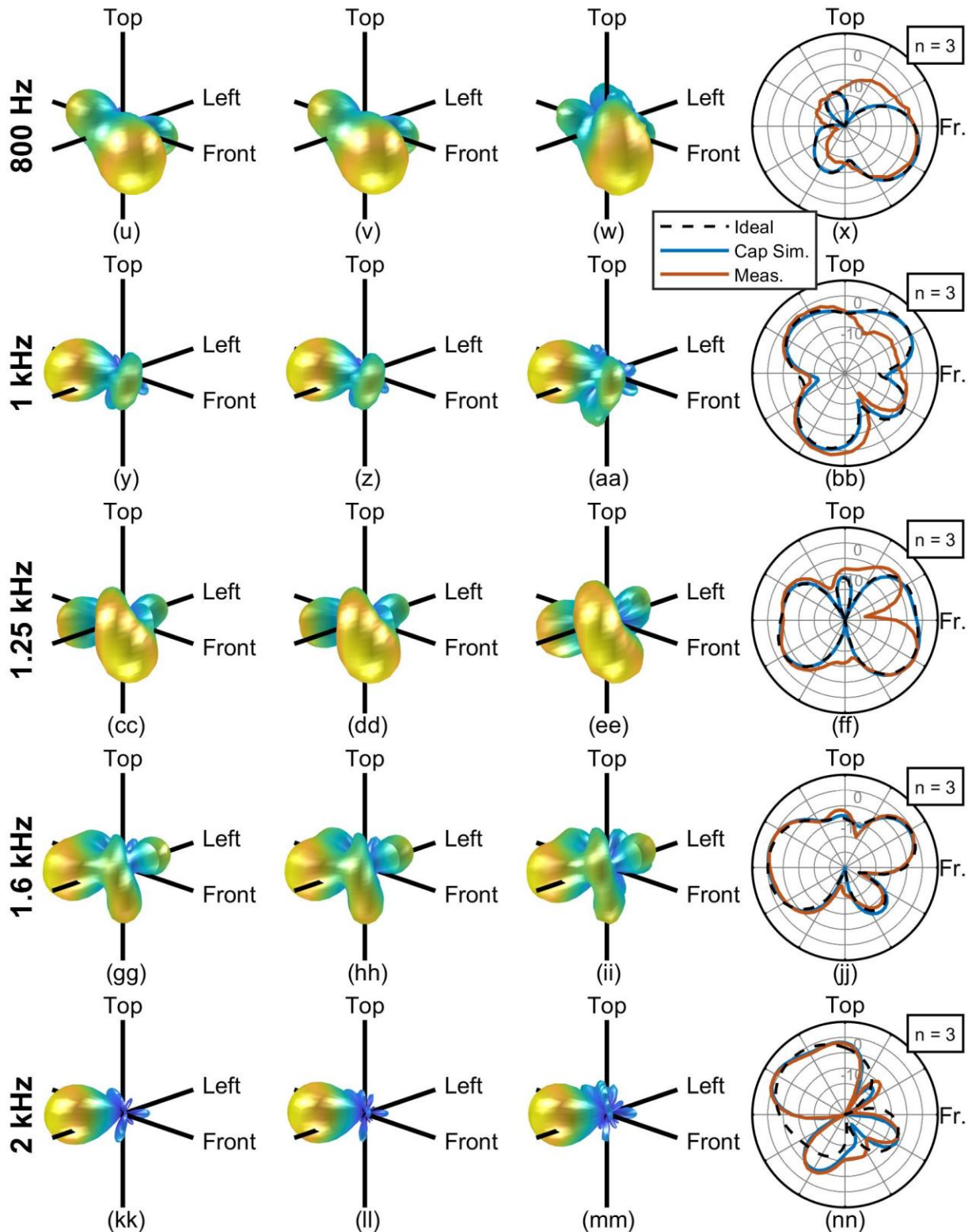
Instrument: **Double Bass**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



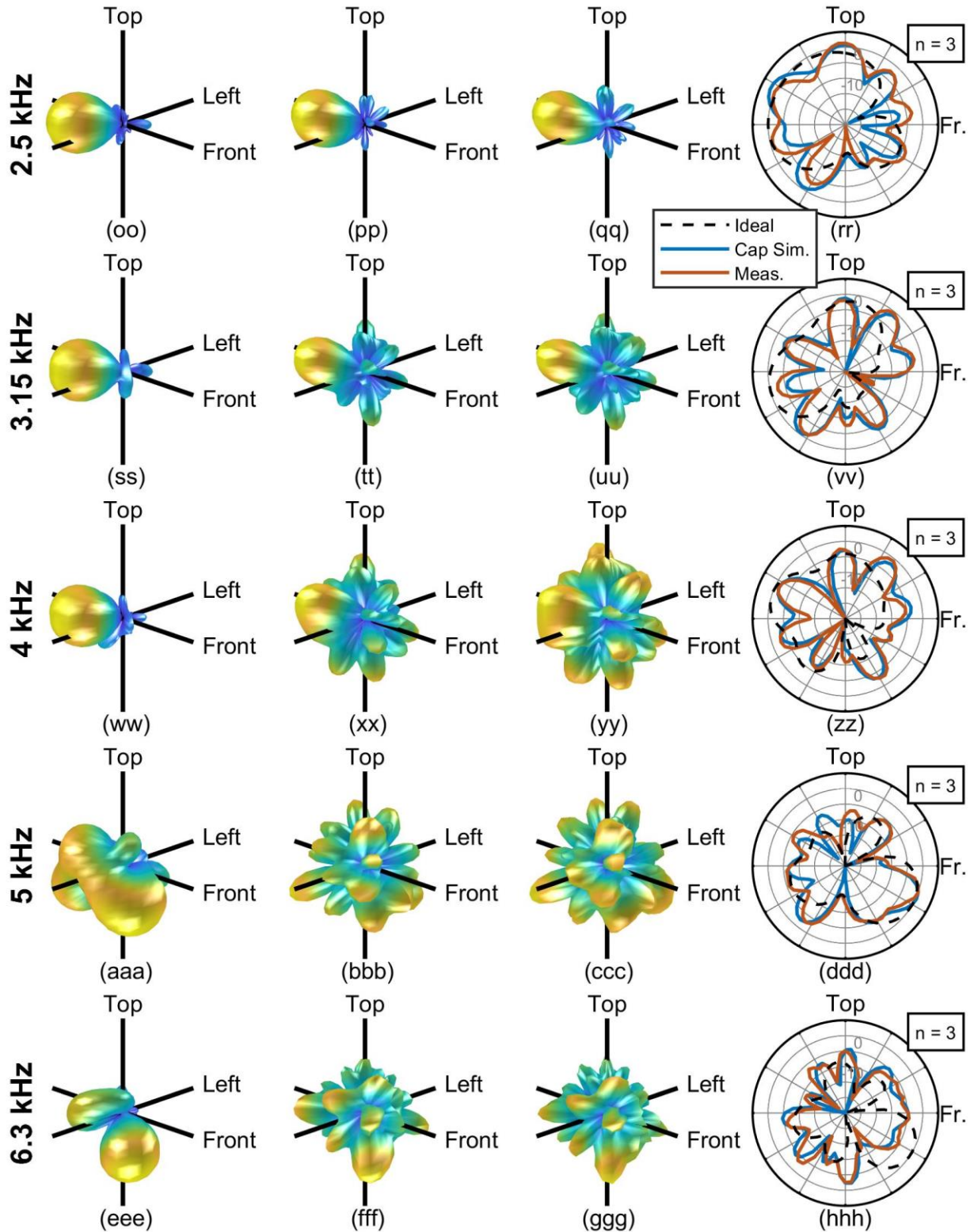
Instrument: **French Horn**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



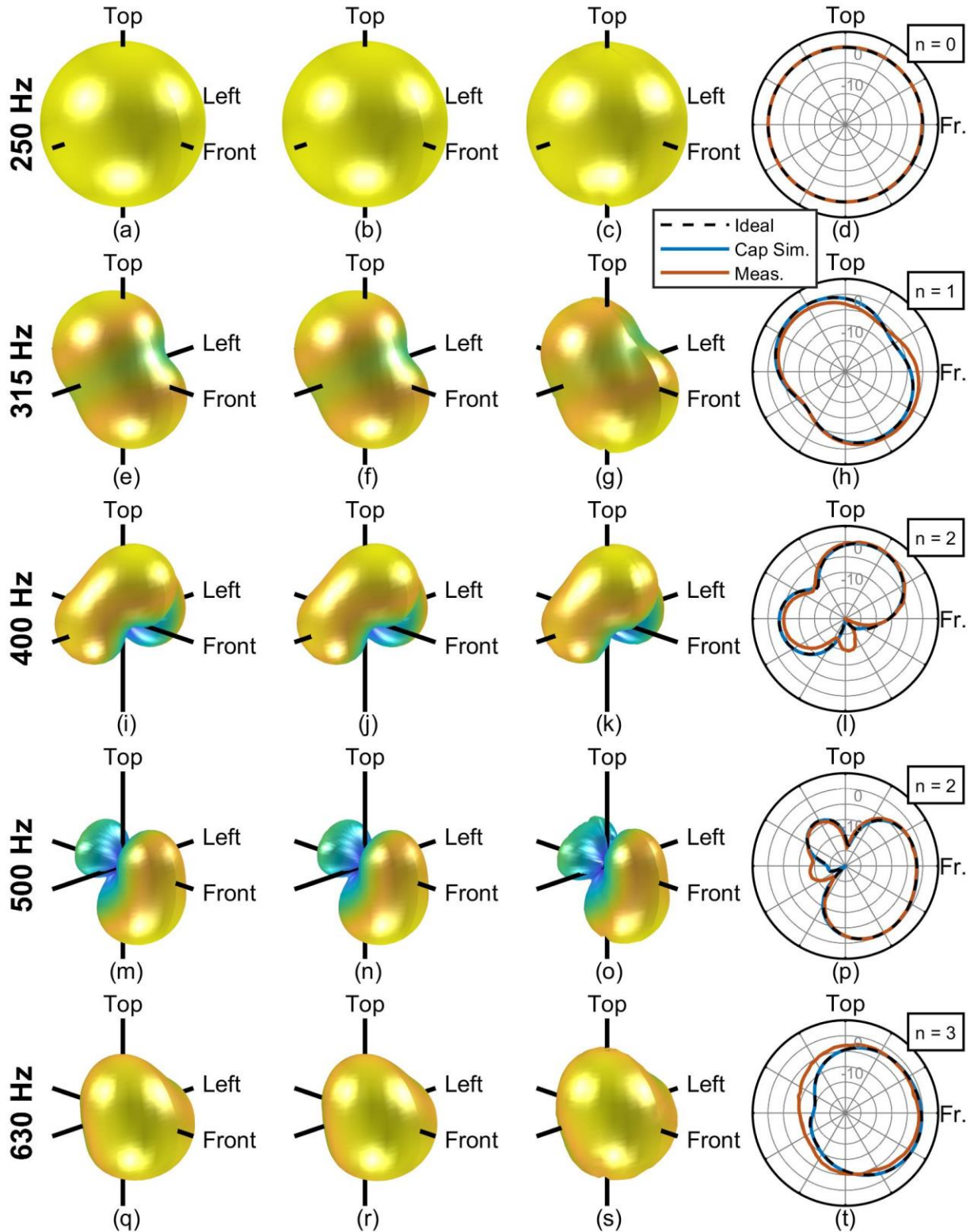
Instrument: **French Horn**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



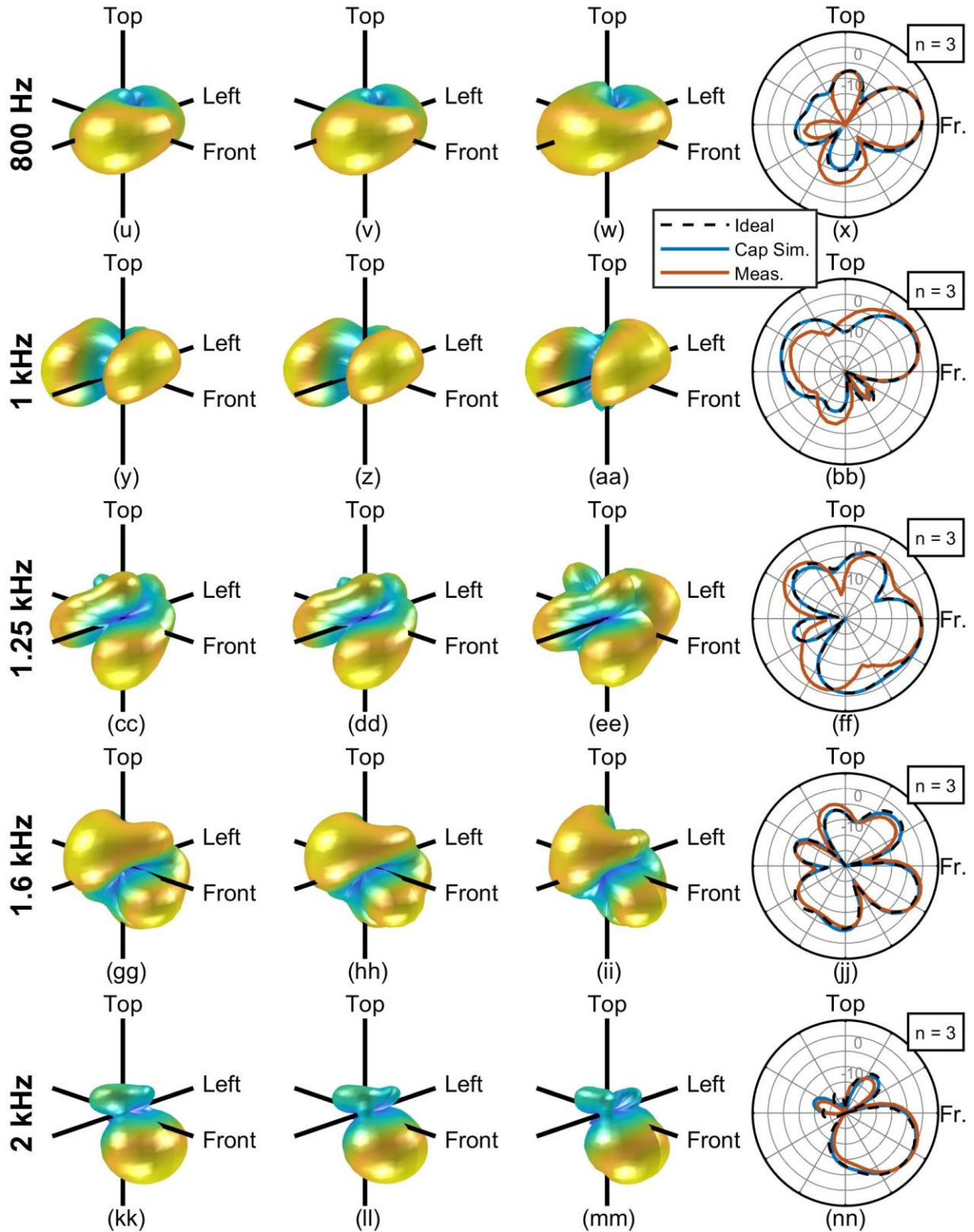
Instrument: French Horn

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



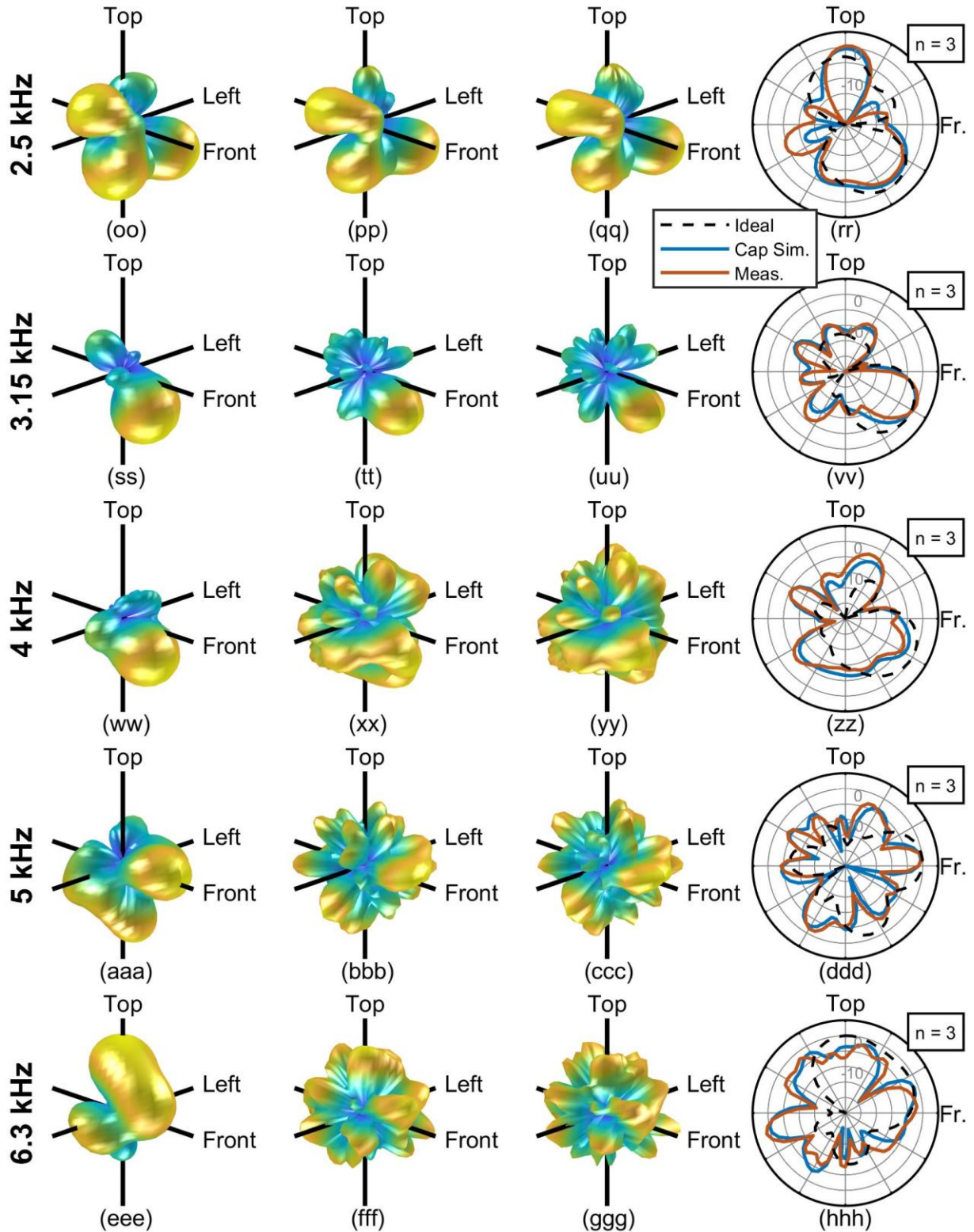
Instrument: Oboe

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



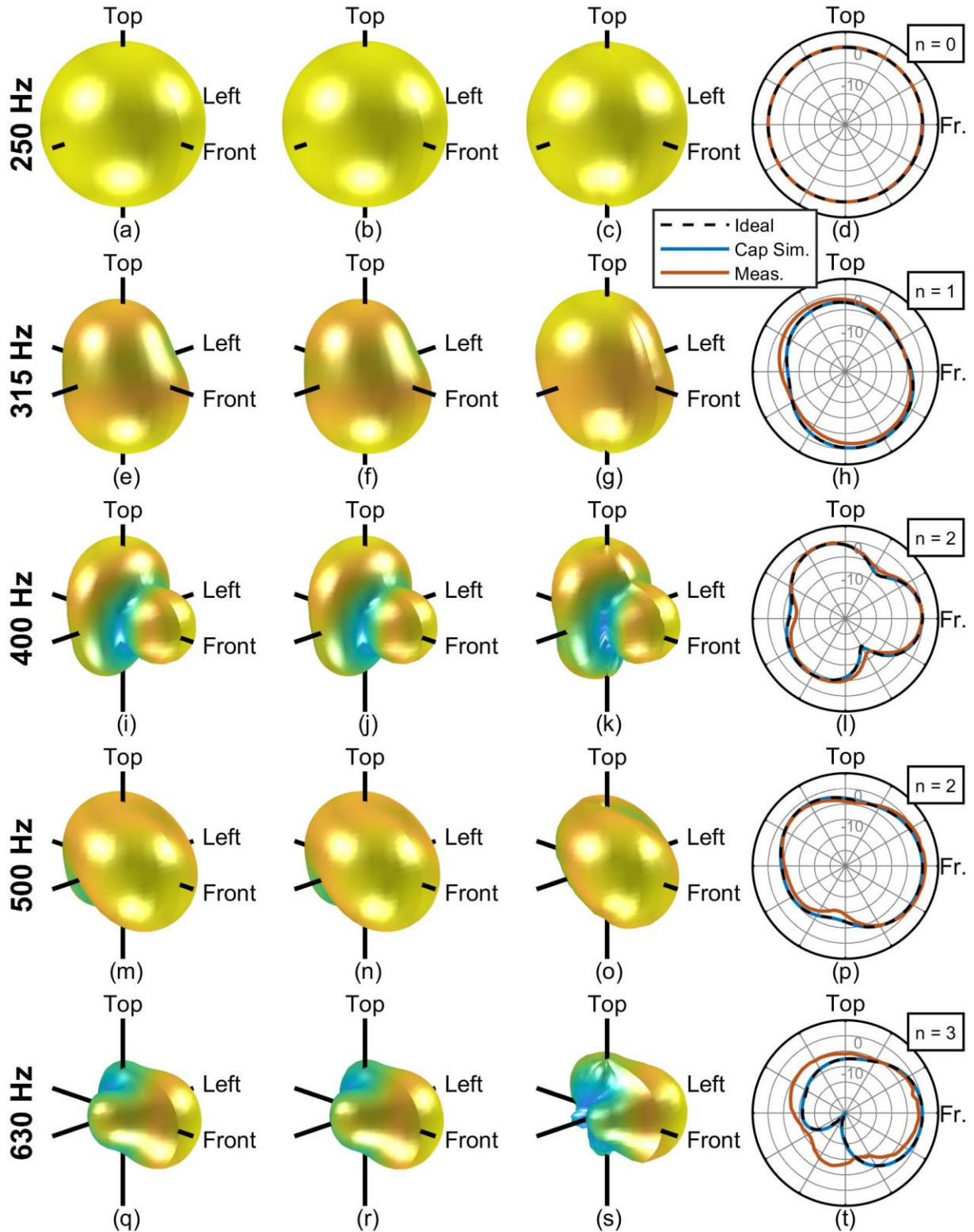
Instrument: Oboe

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



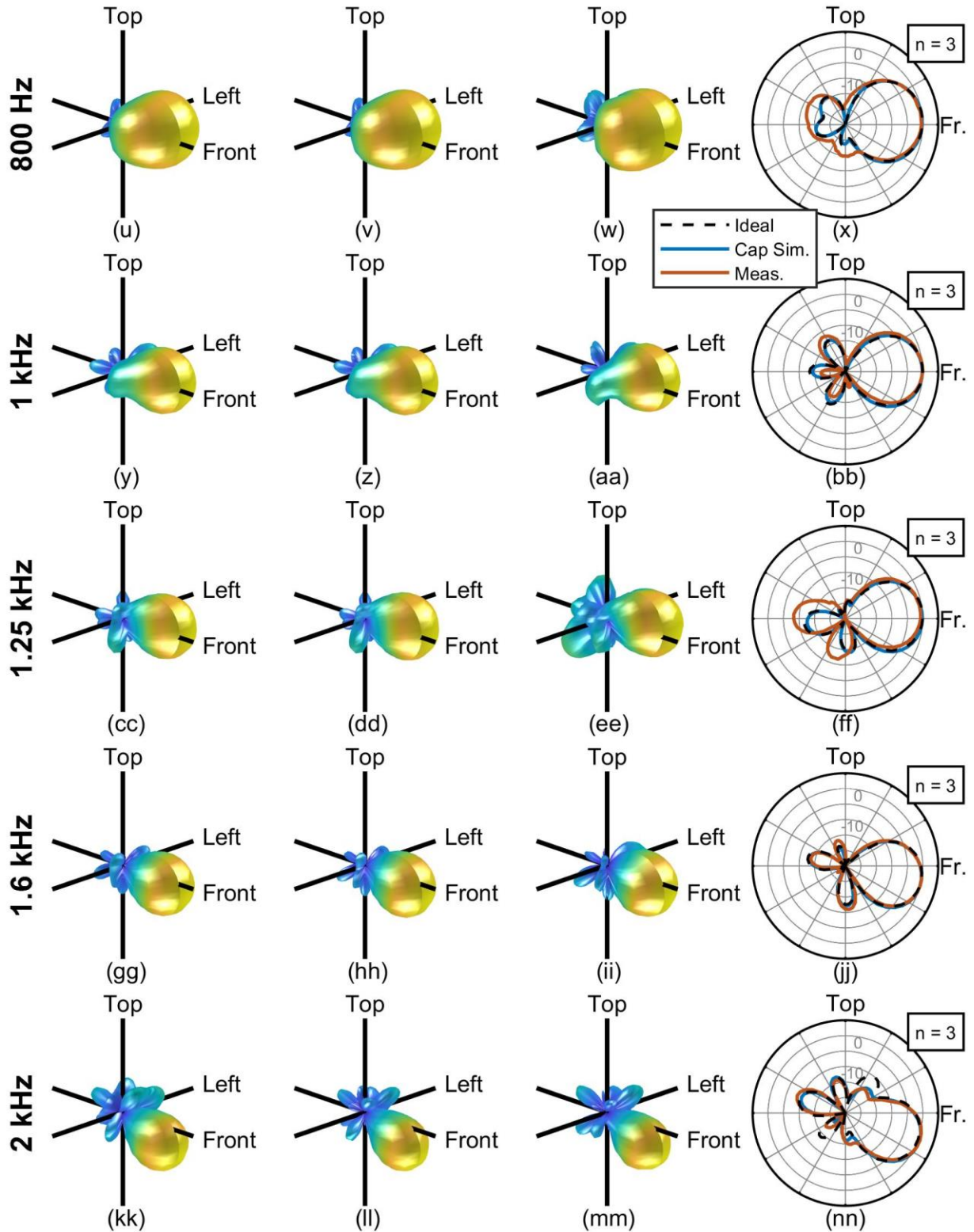
Instrument: Oboe

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



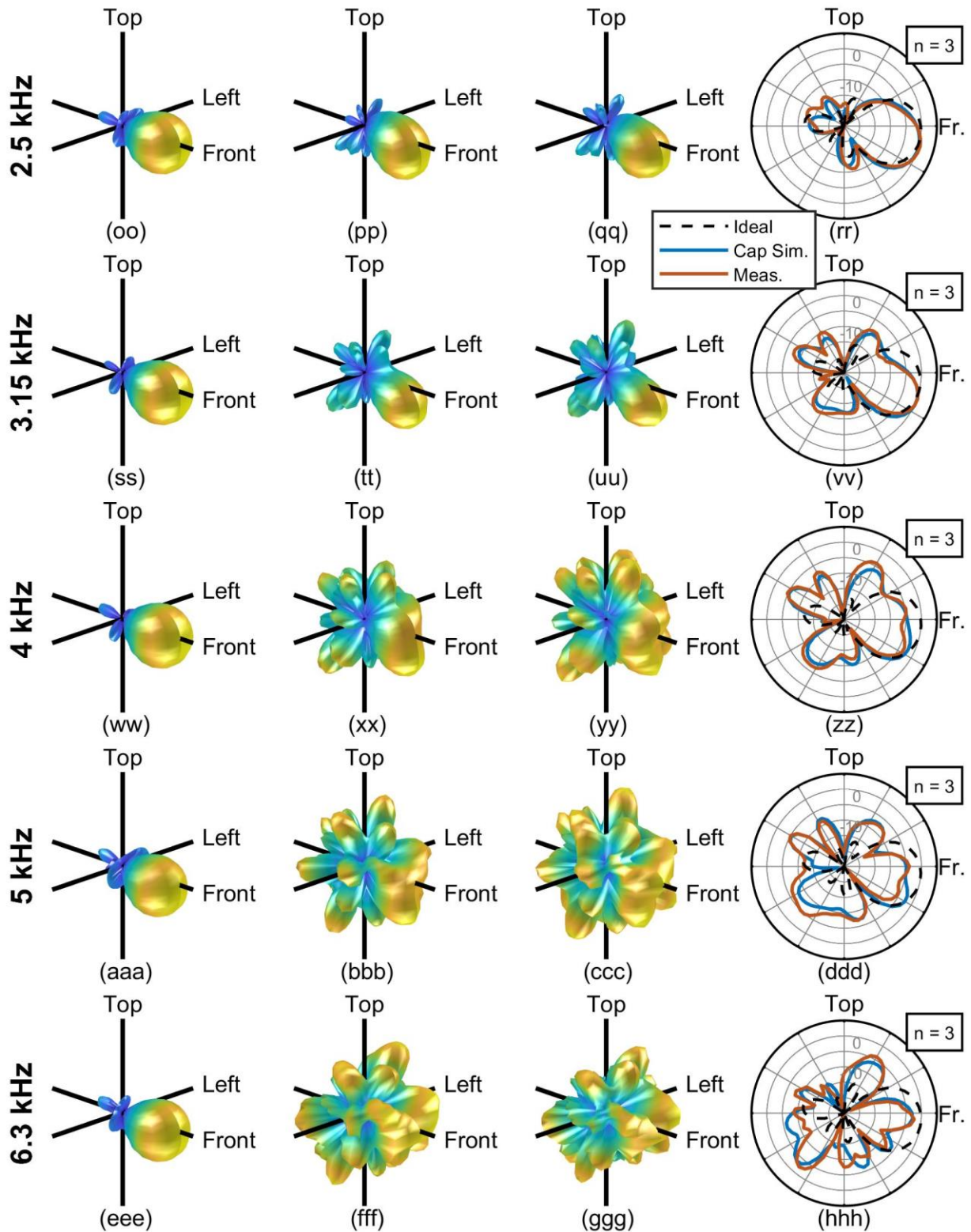
Instrument: Tenor Trombone

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



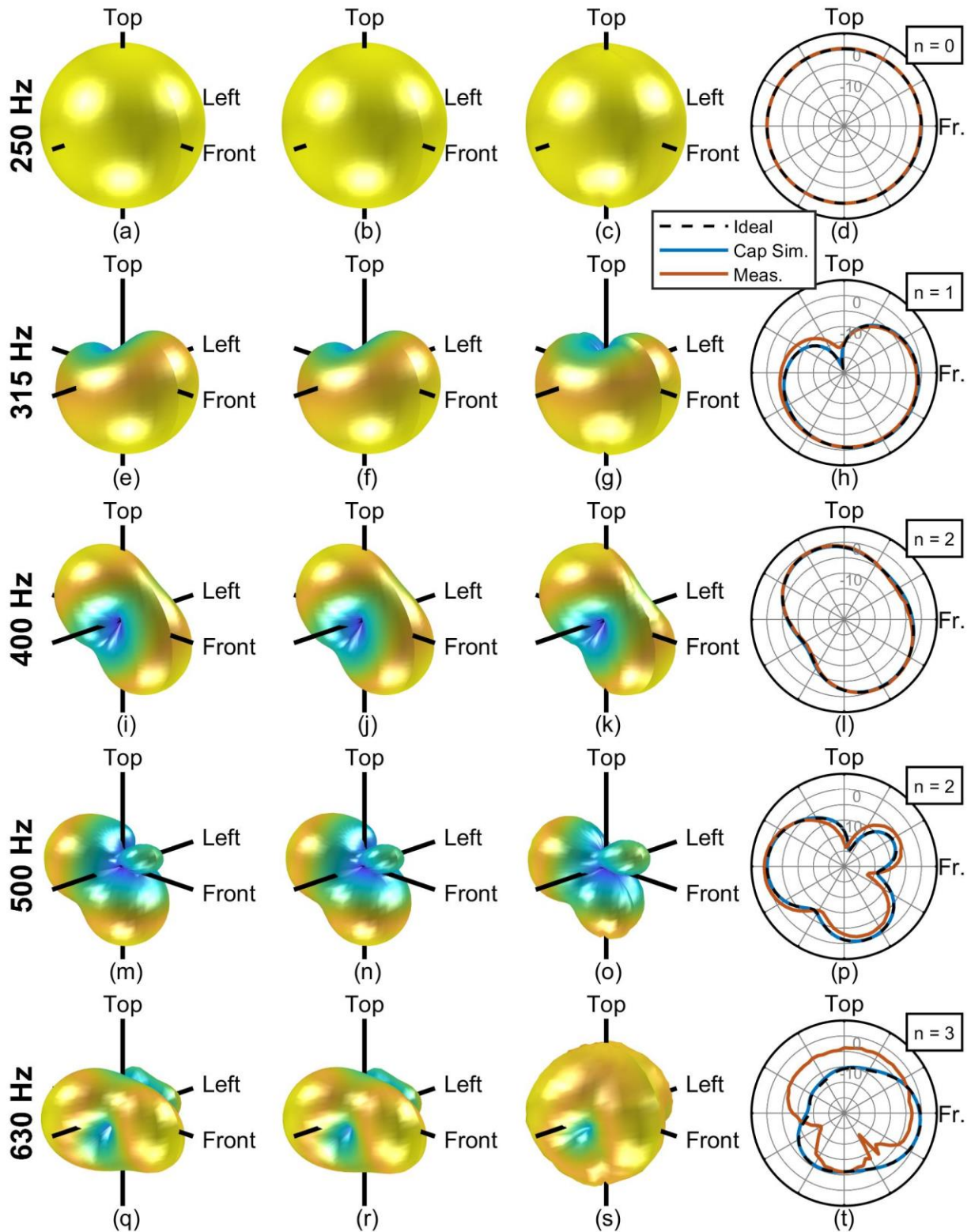
Instrument: Tenor Trombone

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



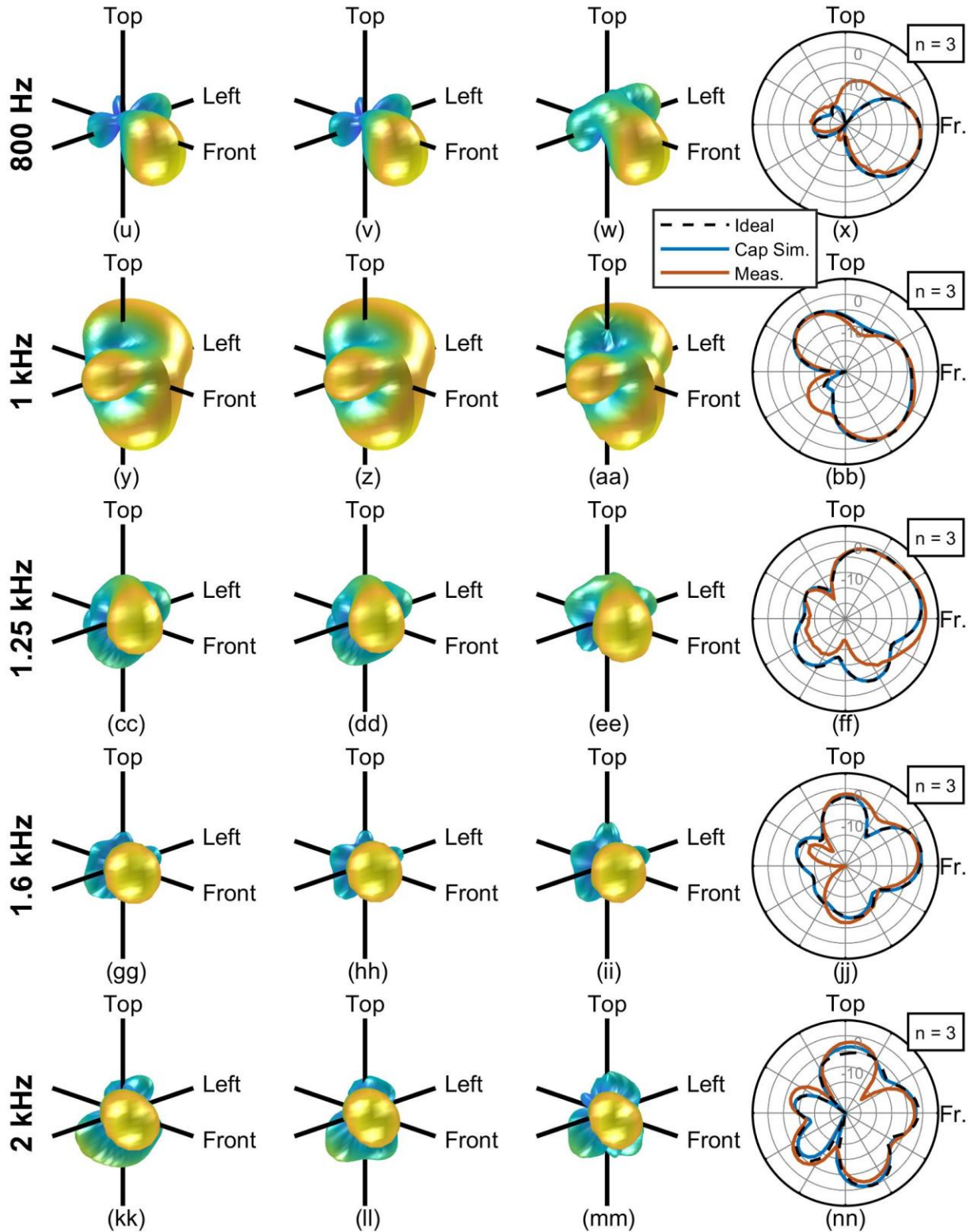
Instrument: Tenor Trombone

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



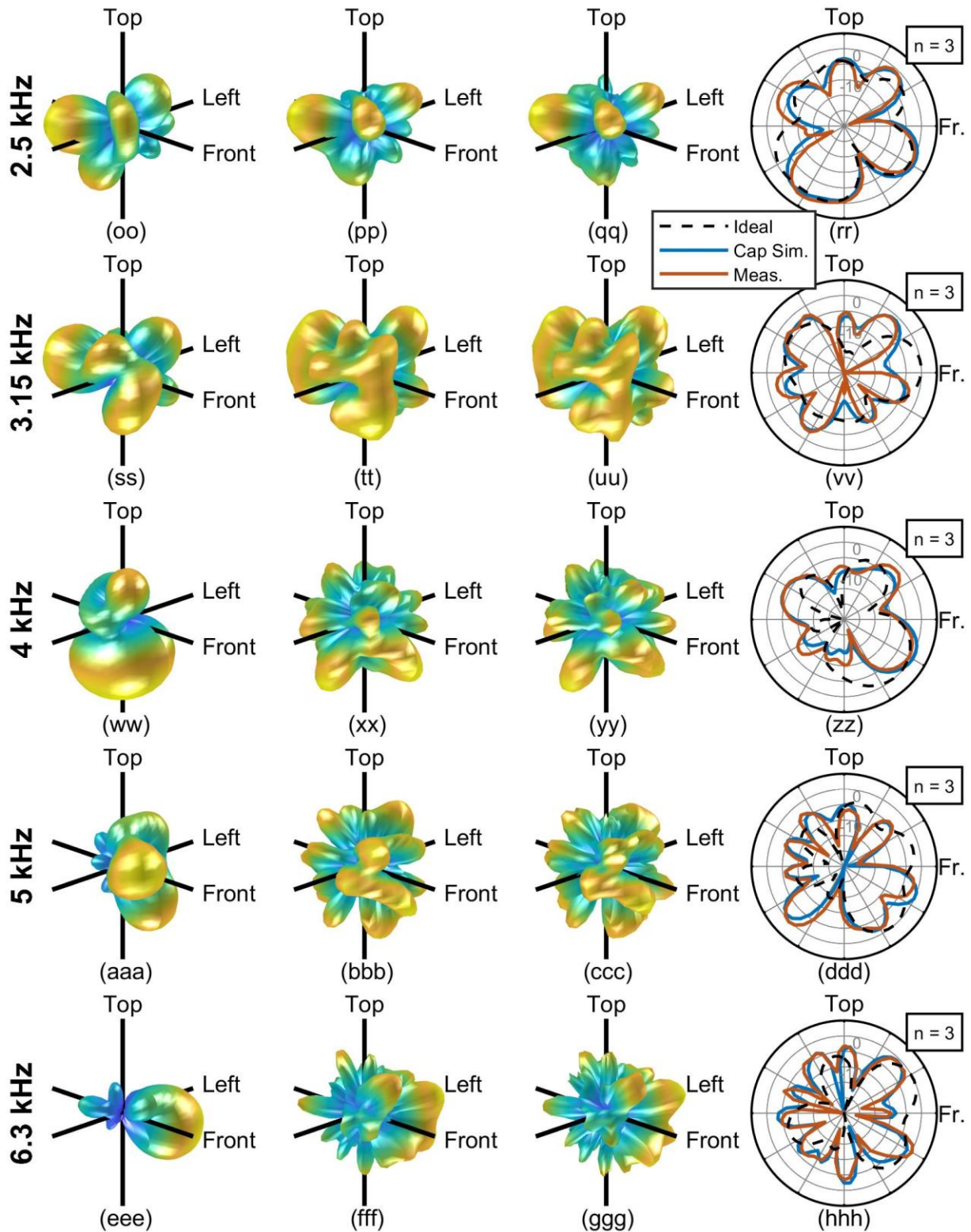
Instrument: **Transverse Flute**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



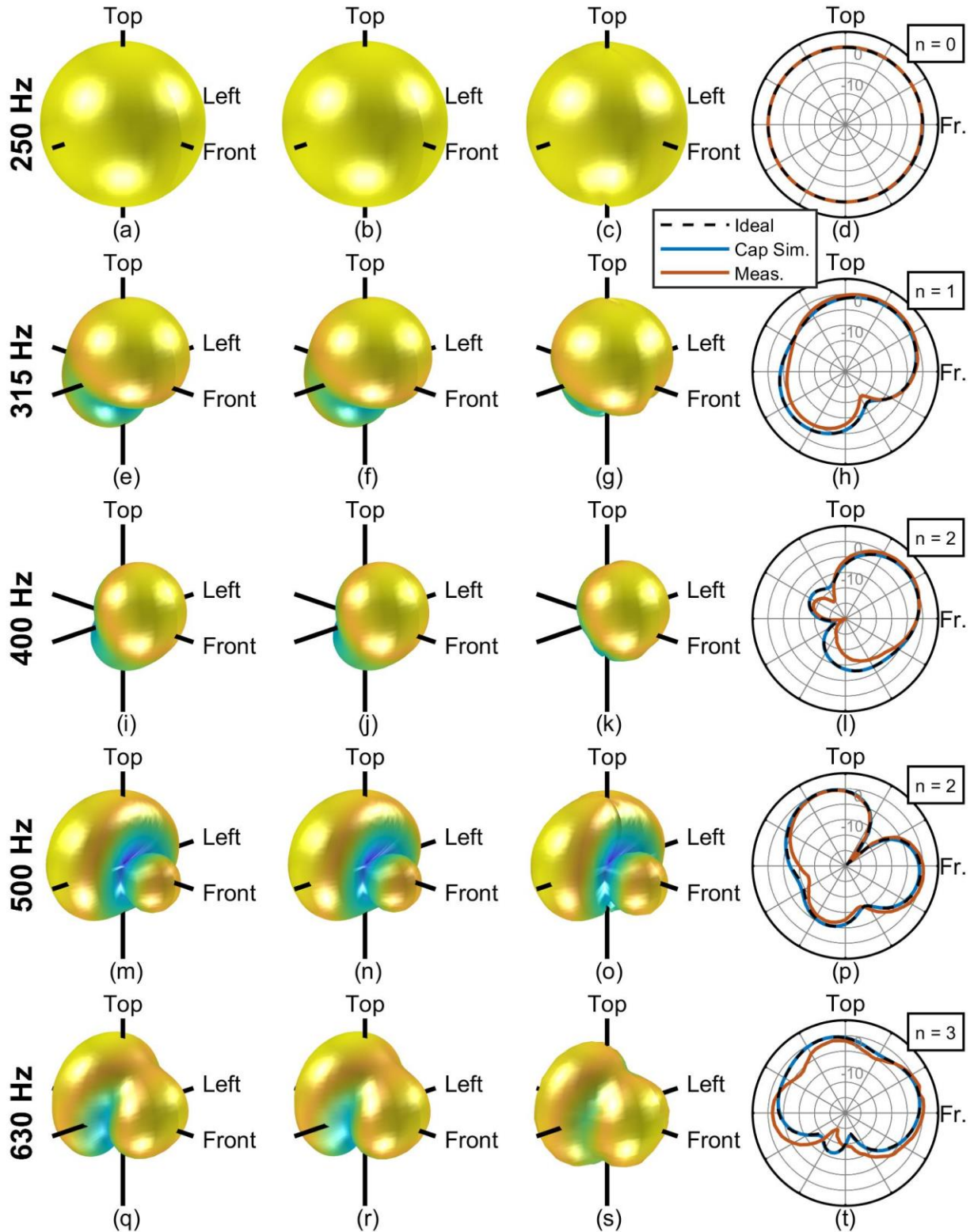
Instrument: Transverse Flute

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



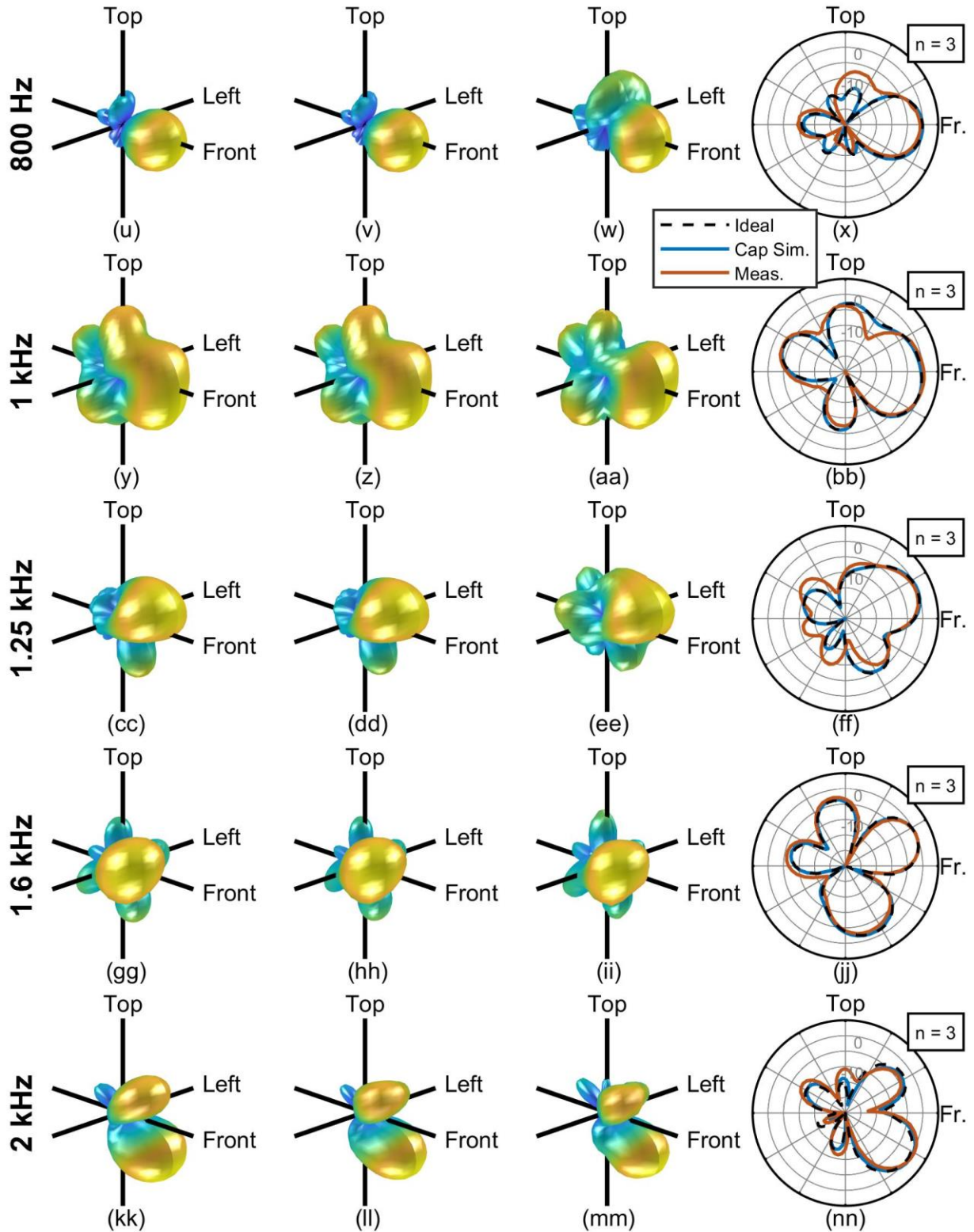
Instrument: **Transverse Flute**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



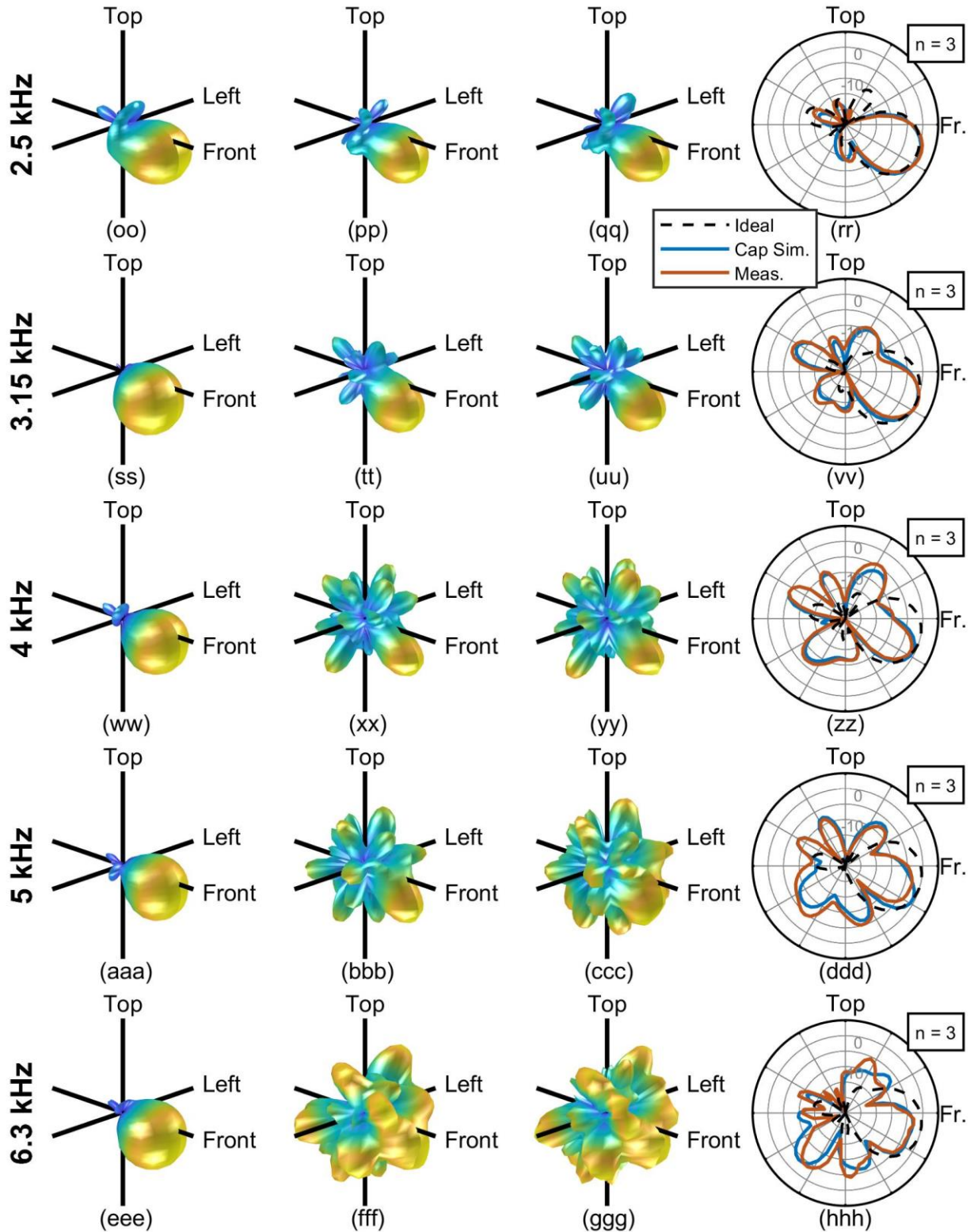
Instrument: **Trumpet**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



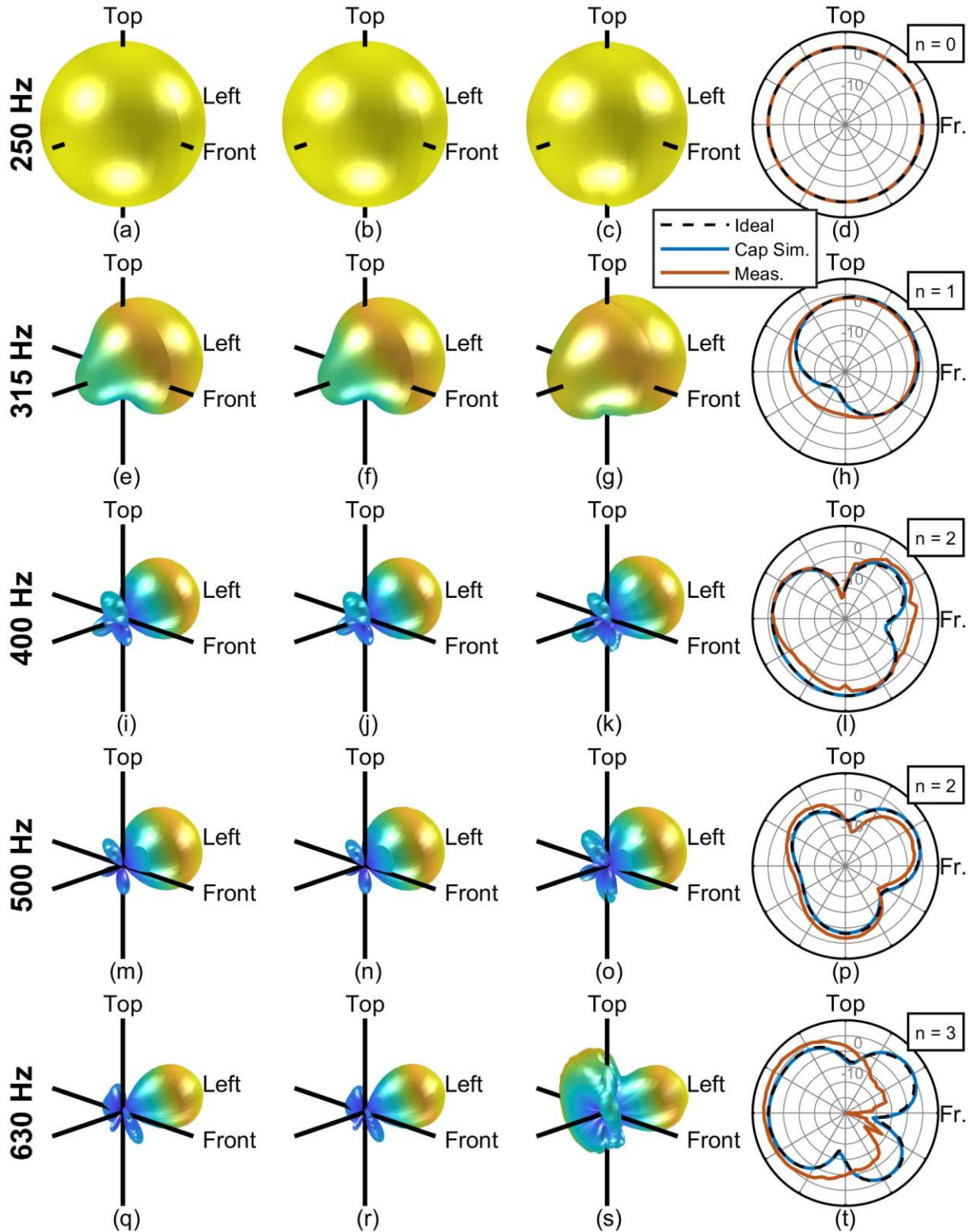
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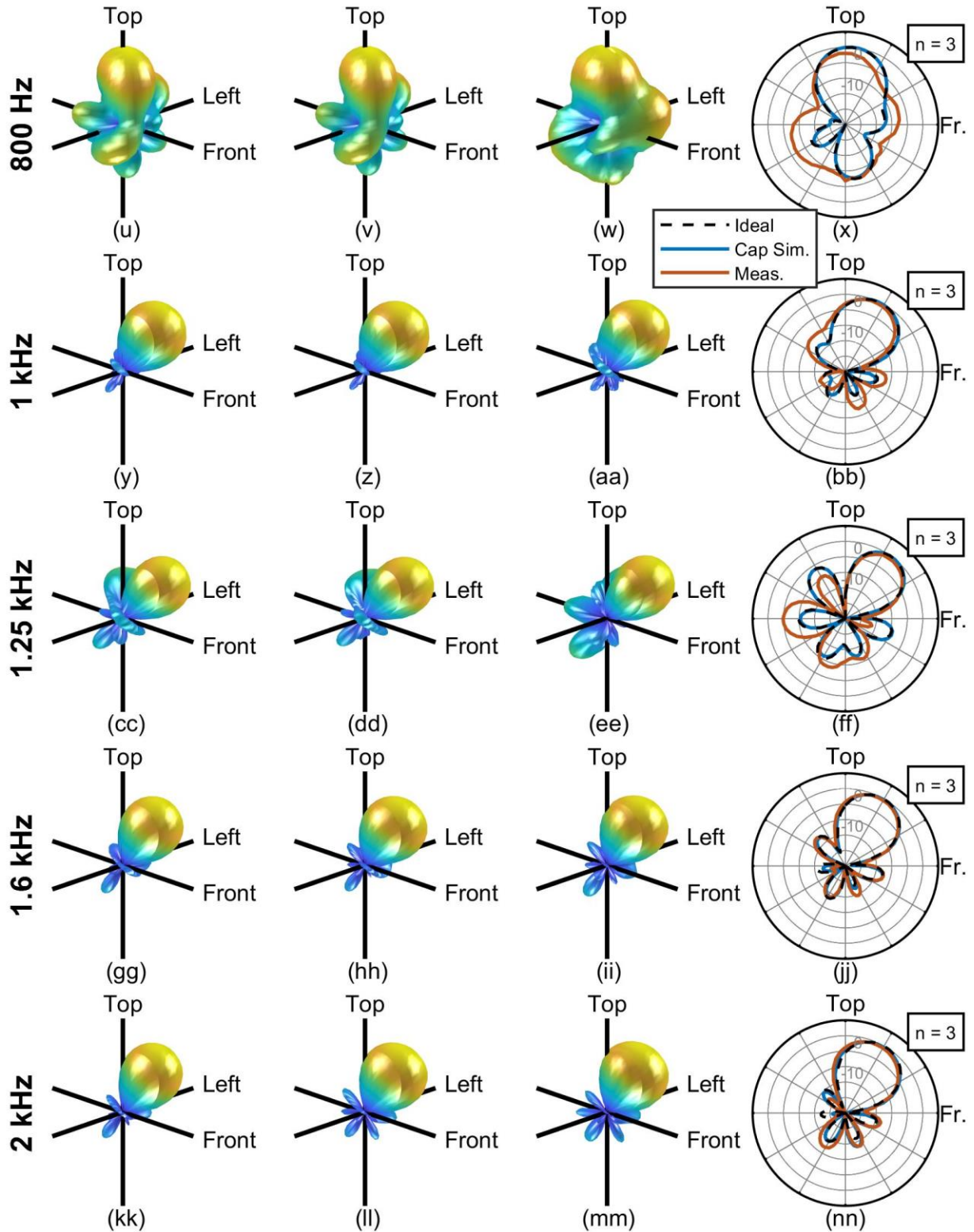
Instrument: **Trumpet**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



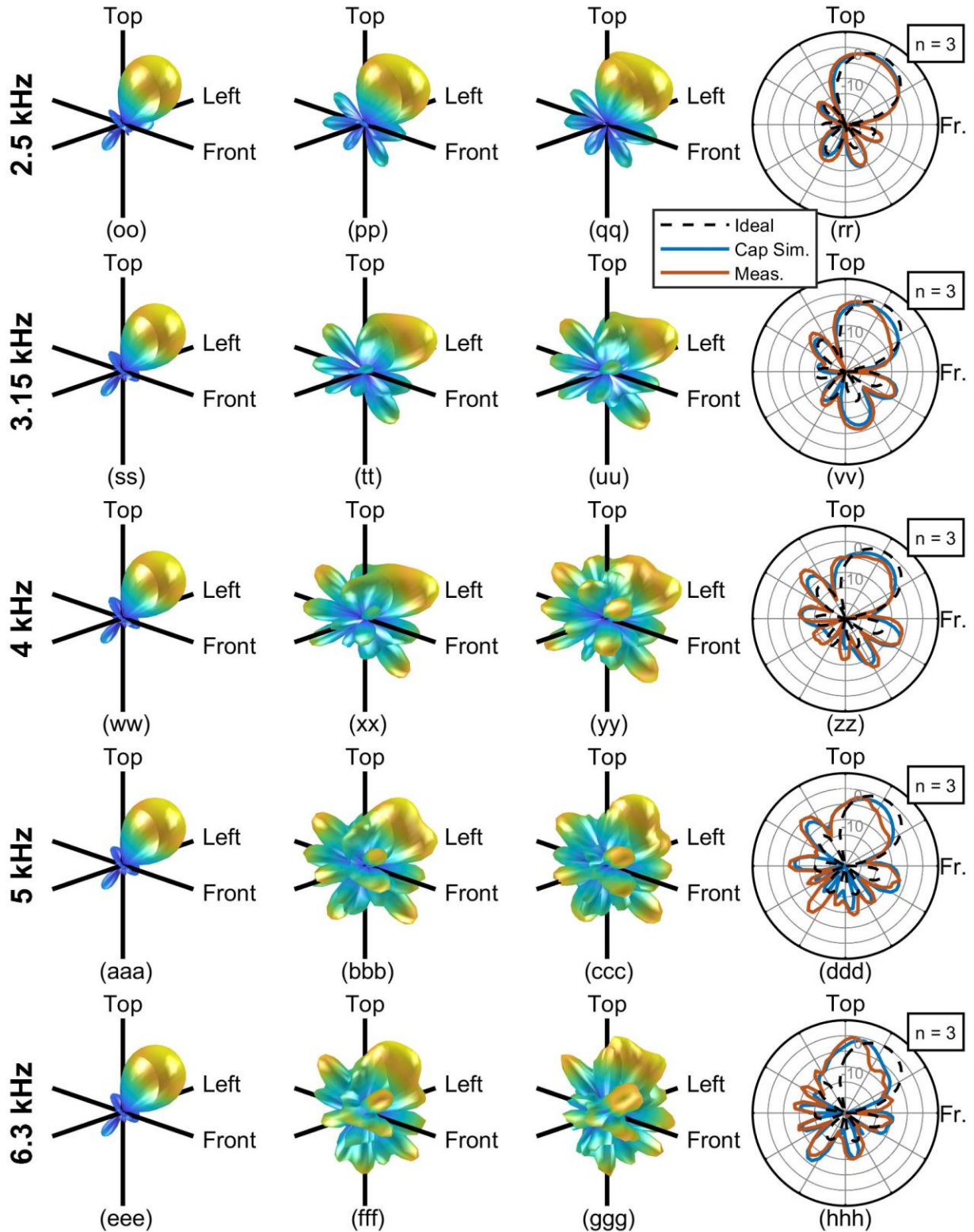
Instrument: **Tuba**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



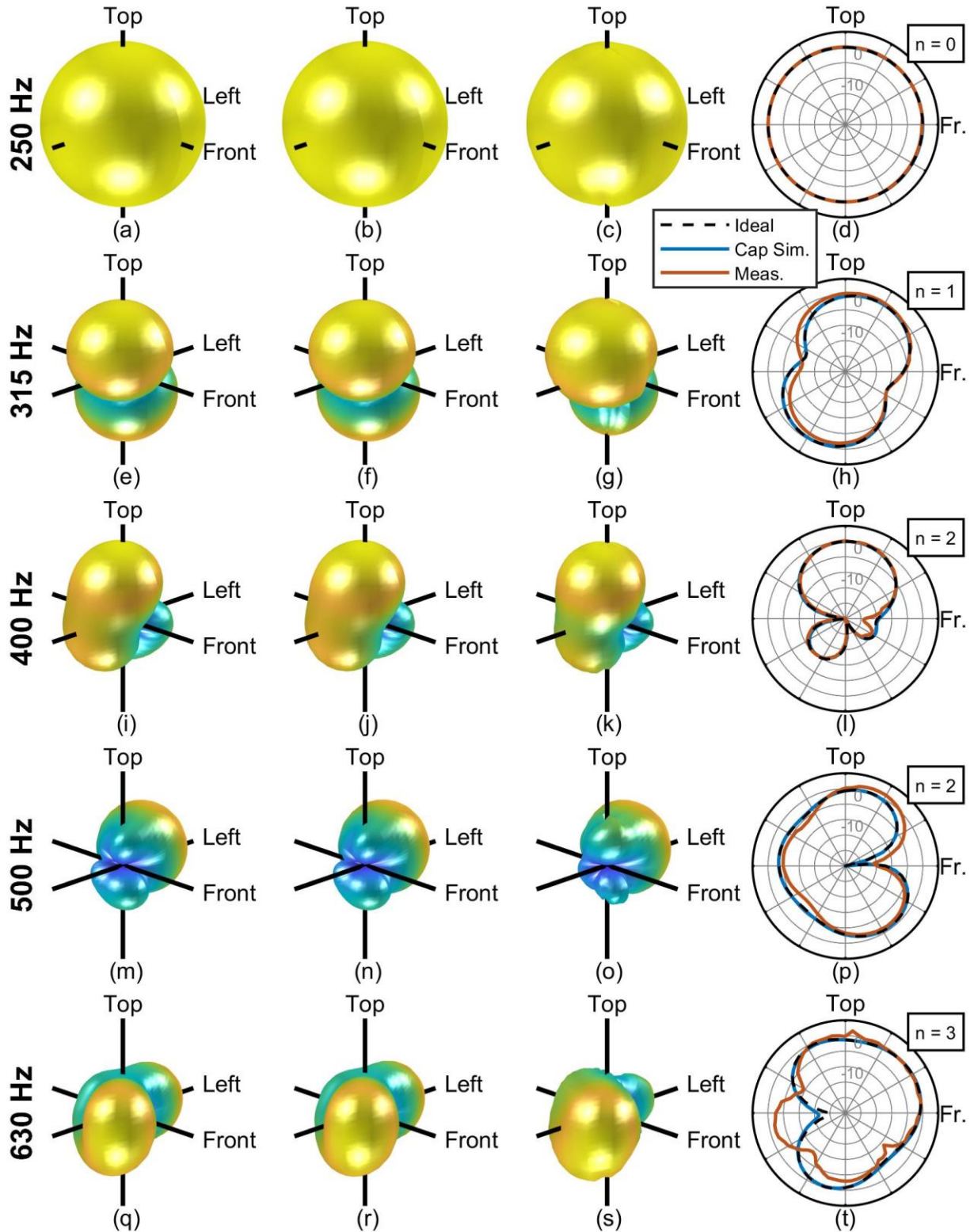
Instrument: Tuba

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



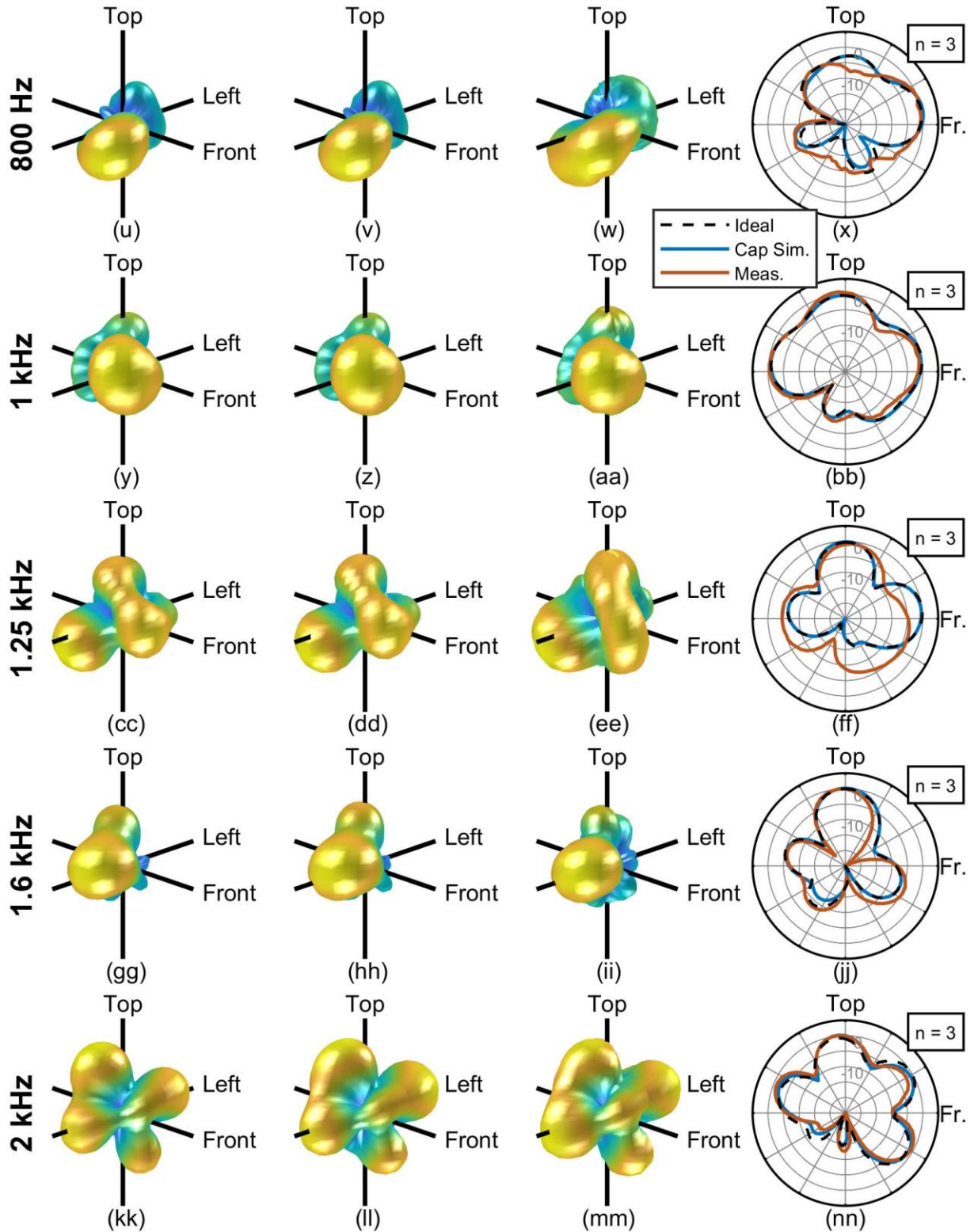
Instrument: **Tuba**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



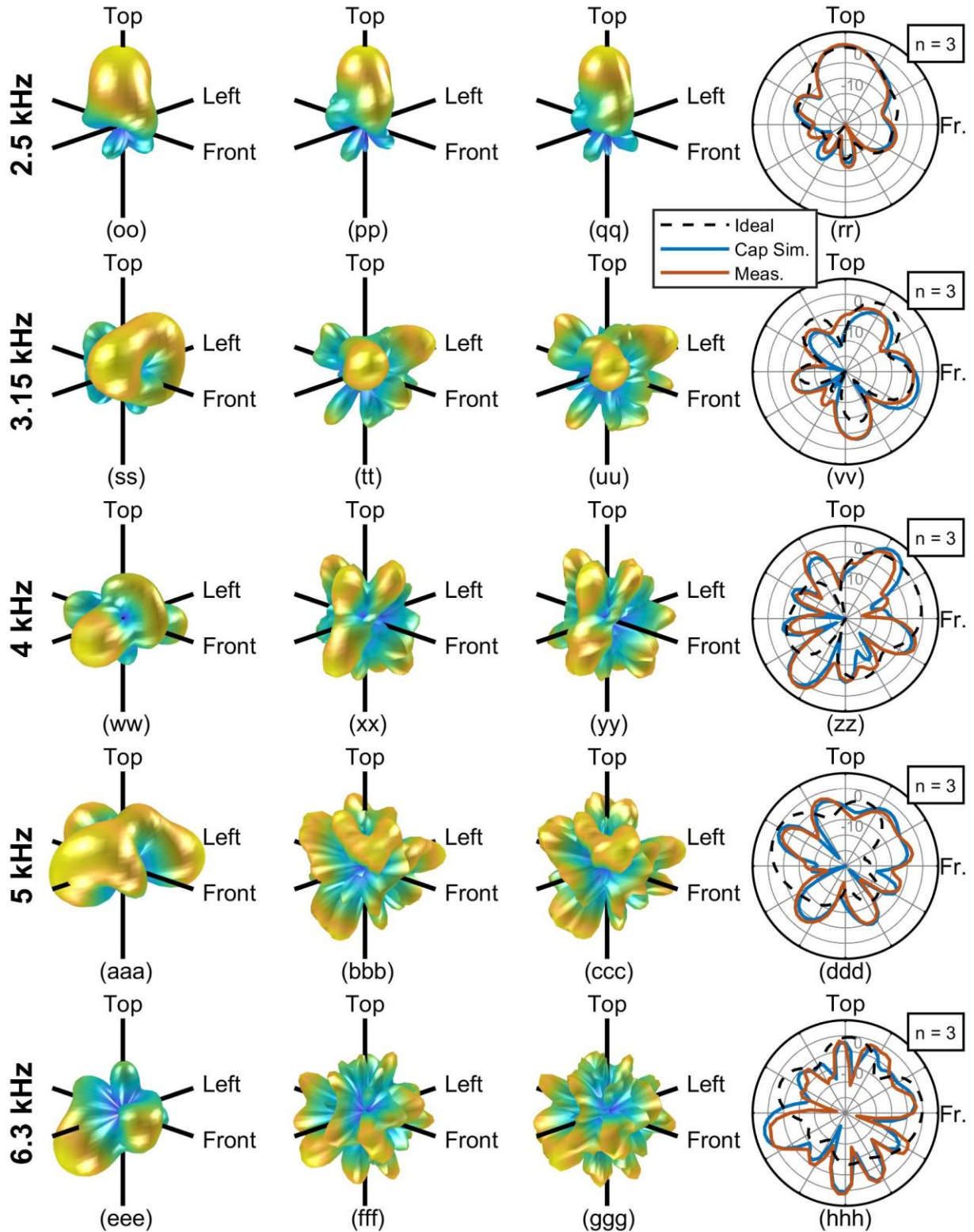
Instrument: Viola

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



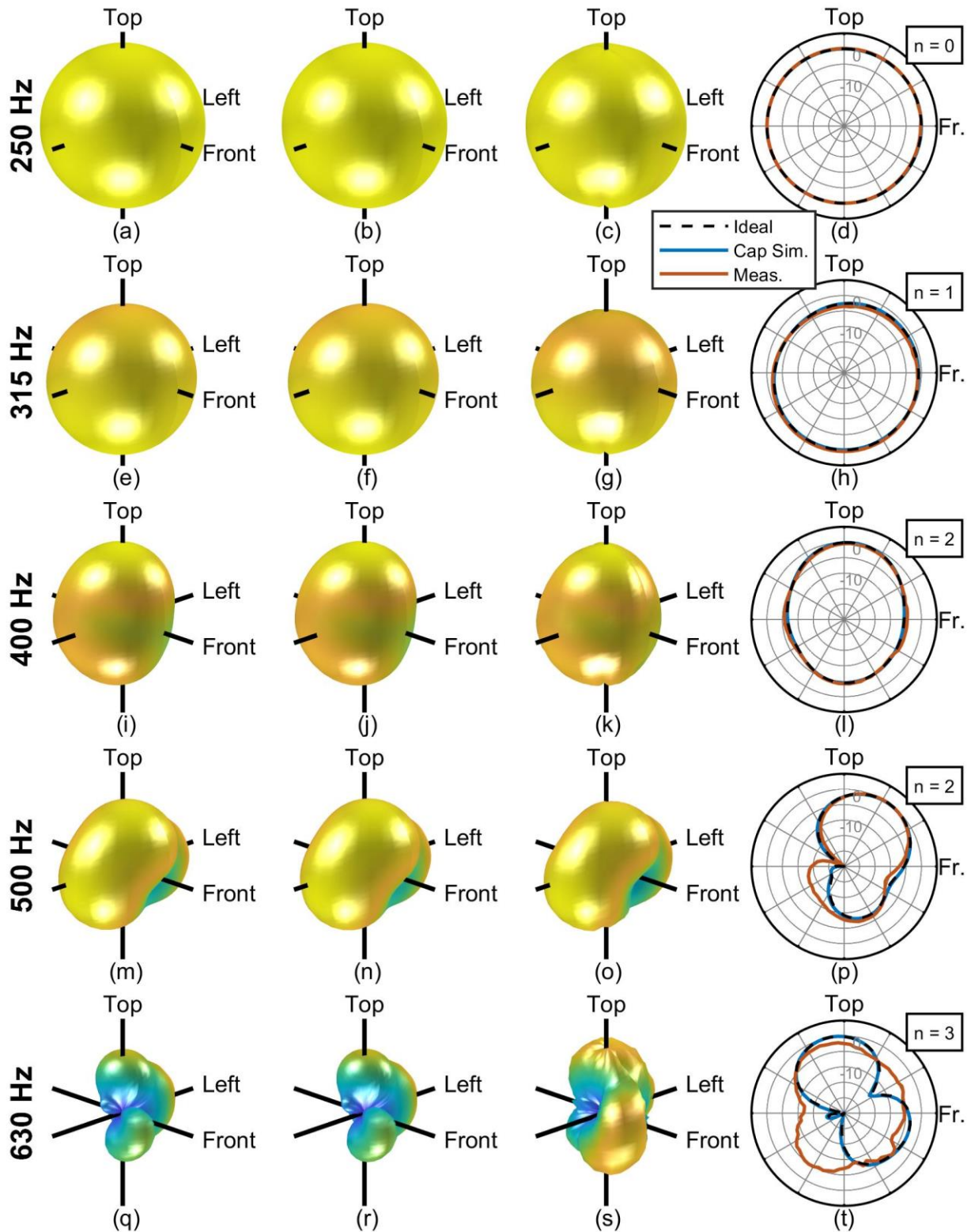
Instrument: Viola

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



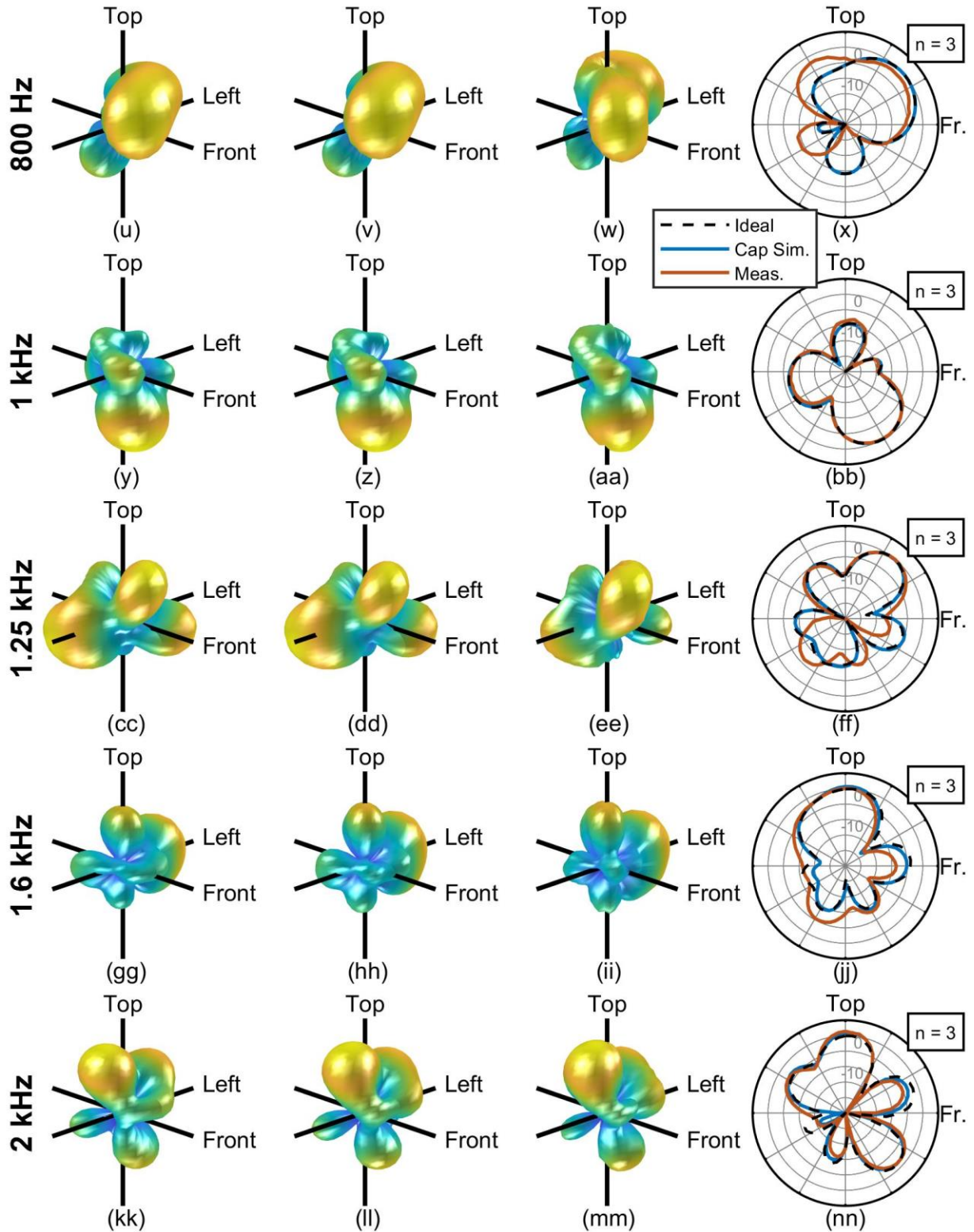
Instrument: Viola

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



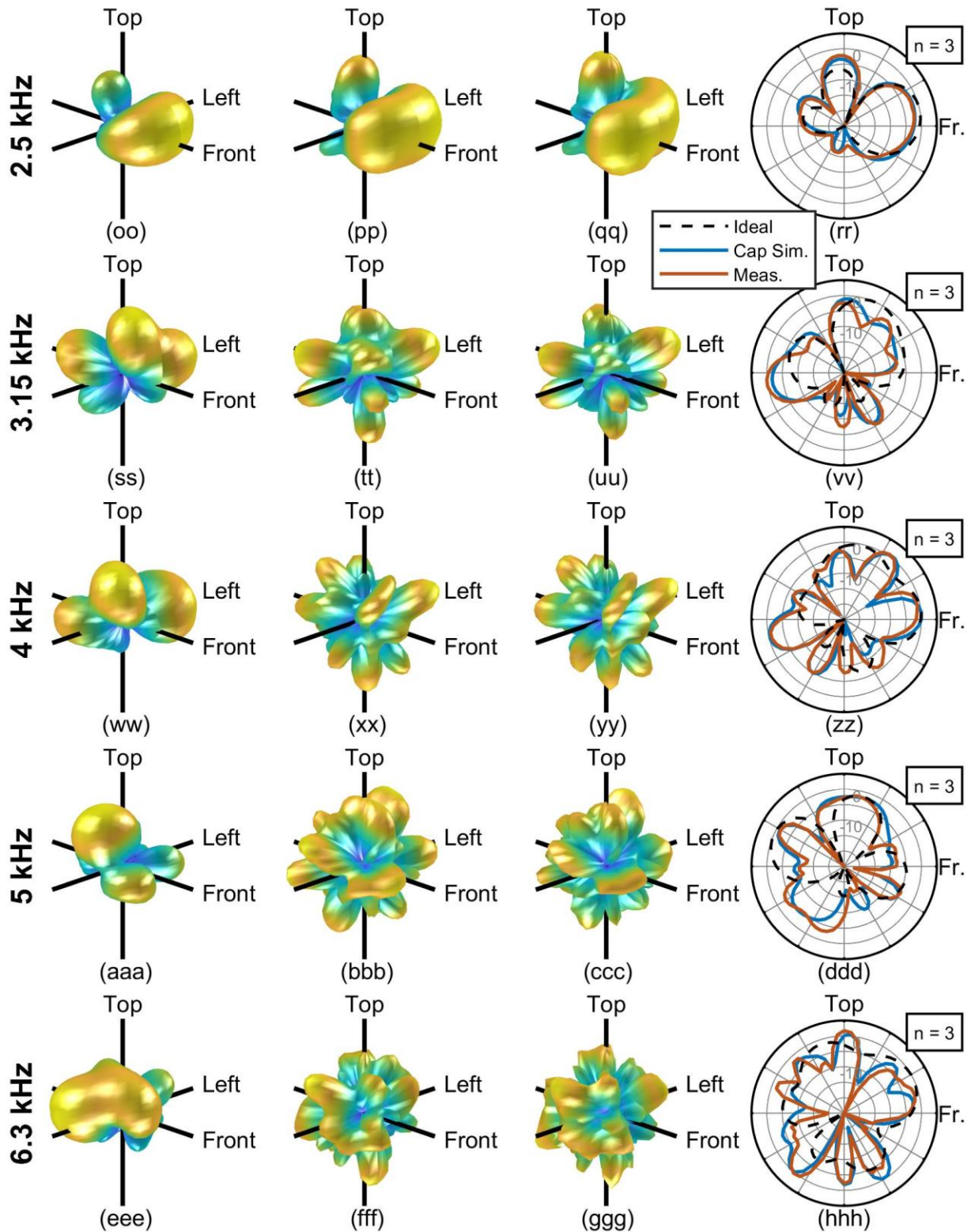
Instrument: **Violin**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



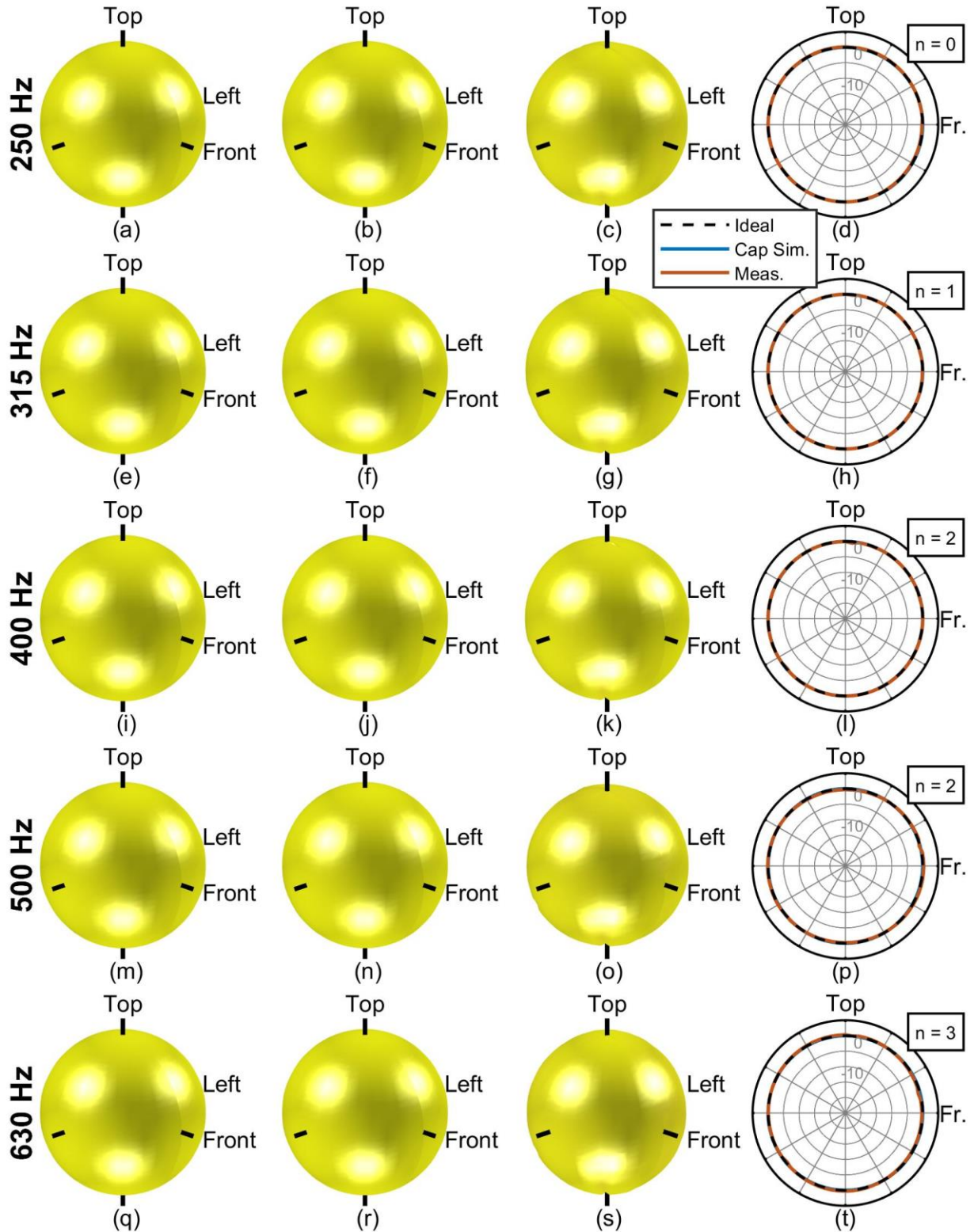
Instrument: **Violin**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



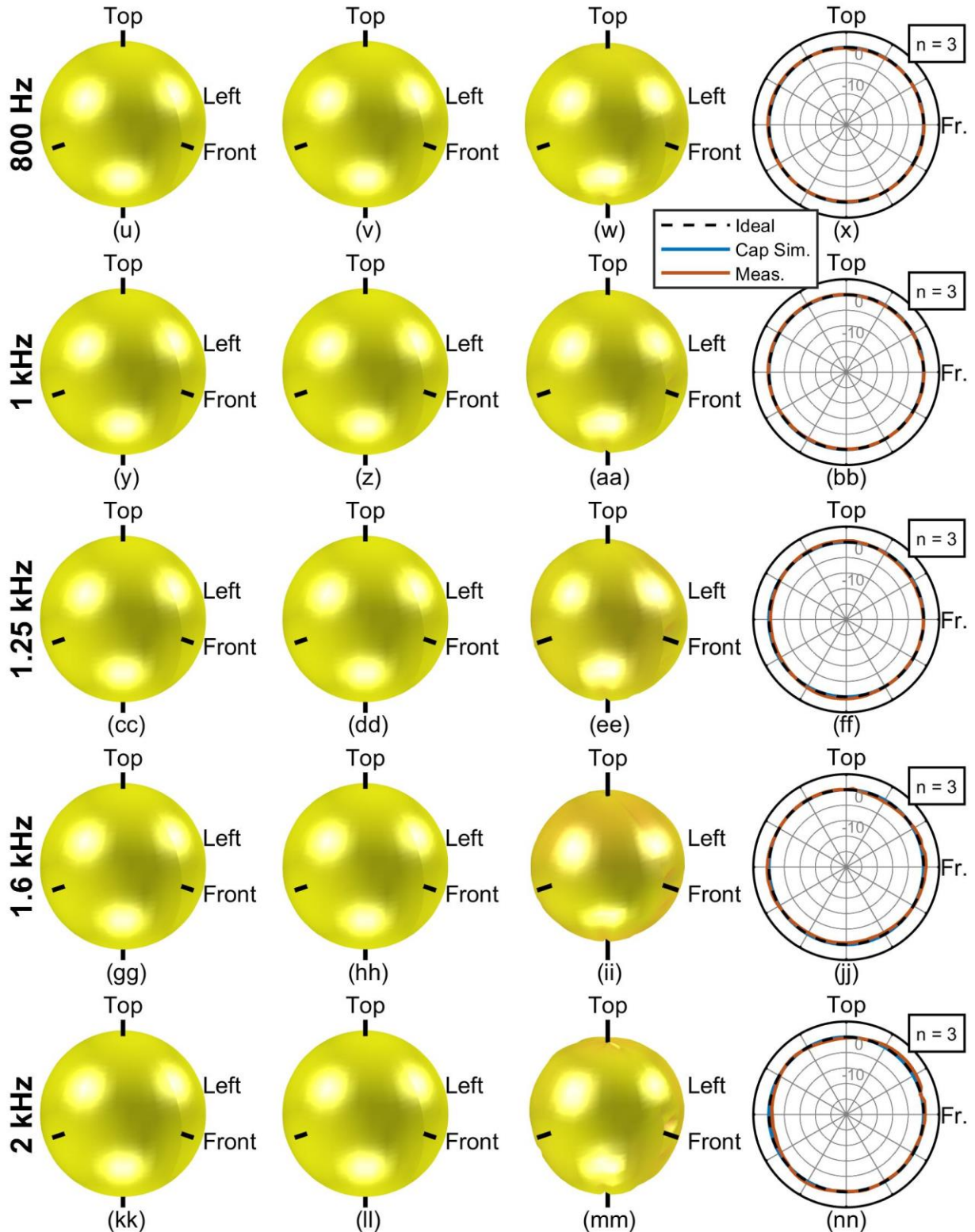
Instrument: **Violin**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



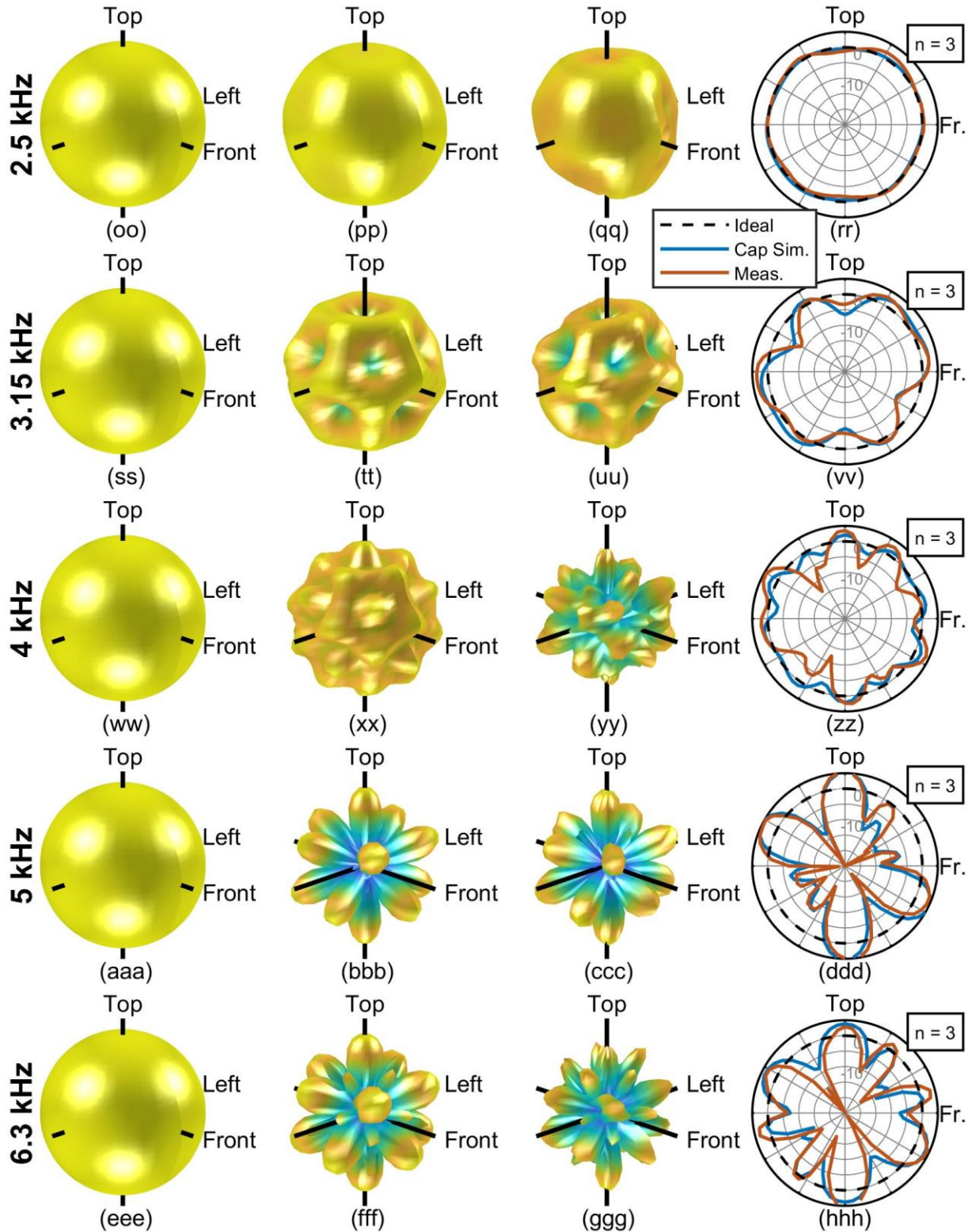
Instrument: **Omnidirectional Radiation (used for Timpani)**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.



Instrument: **Omnidirectional Radiation (used for Timpani)**

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Instrument: **Omnidirectional Radiation (used for Timpani)**

From left to right, a comparison of the ideal, simulated (spherical cap model) and measured directivity of the 20-channel array using the directivity filters. Each row corresponds to a different frequency, and a vertical slice of the balloon plots is shown as a 2D polar plot to the right. The SH order is provided in the top right of the polar plot.