## Accepted Manuscript

Diverging Beam Transmit through Limited Aperture: A method to reduce ultrasound system complexity and yet obtain better Image quality at higher frame rates

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## **ACCEPTED MANUSCRIPT**

## Diverging Beam Transmit through Limited Aperture: A method to reduce ultrasound system complexity and yet obtain better Image quality at higher frame rates

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Highlights

- DB-SAT yields better, and depth independent, lateral resolution compared to CFB
- The frame rate achievable using DB-SAT is several times more compared to CFB
- DB-SAT with only 8-TX/ 64-RX elements achieved the above characteristics

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