

LONG-RANGE VIRASORO MINIMAL MODELS

Fanny Eustachon, CPHT, École polytechnique, Institut Polytechnique de Paris

Work in collaboration with Dario Benedetti and Edoardo Lauria

s

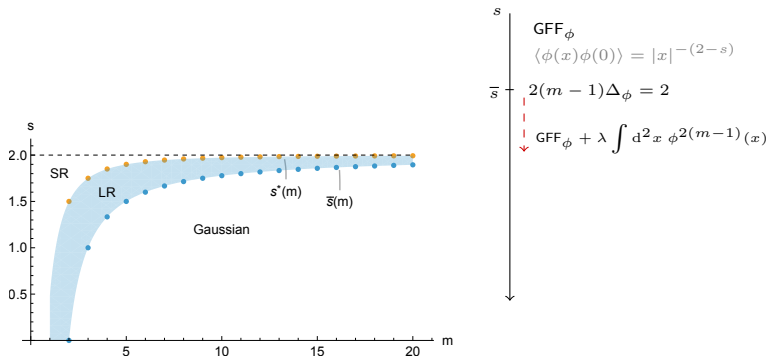
GFF $_{\phi}$

$$\langle \phi(x) \phi(0) \rangle = |x|^{-(2-s)}$$


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- **Long-range models:** Applications in experimental statistical models, CFT defects, ...

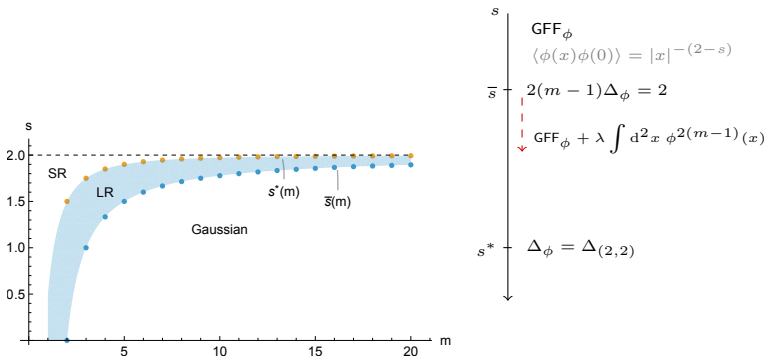


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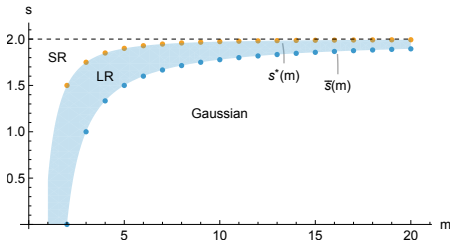
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- **Long-range Ising:** Still unexplored generalizations and variants of the "dual" model
[Behan, Rastelli, Rychkov, Zan, 2017]

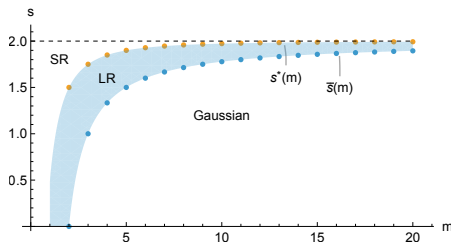


$$\begin{array}{l}
 s \\
 \text{GFF}_\phi \\
 \langle \phi(x) \phi(0) \rangle = |x|^{-(2-s)} \\
 \hline
 \bar{s} \\
 2(m-1)\Delta_\phi = 2 \\
 \downarrow \text{GFF}_\phi + \lambda \int d^2x \phi^{2(m-1)}(x) \\
 \uparrow \mathcal{M}_{(m+1,m)} + \text{GFF}_\chi + g \int d^2x \chi \Phi_{(2,2)}(x) \\
 s^* \\
 \Delta_\phi = \Delta_{(2,2)} \\
 \downarrow
 \end{array}$$

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- **Long-range Ising:** Still unexplored generalizations and variants of the "dual" model
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- **Non-unitary minimal model:** Tool to better understand their Landau-Ginzburg formalism [Kelbanov et al.]



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 \langle \phi(x) \phi(0) \rangle = |x|^{-(2-s)} \\
 \hline
 \bar{s} \\
 2(m-1)\Delta_\phi = 2 \\
 \downarrow \text{red dashed arrow} \\
 \text{GFF}_\phi + \lambda \int d^2x \phi^{2(m-1)}(x) \\
 \uparrow \text{red dashed arrow} \\
 \mathcal{M}_{(m+1,m)} + \text{GFF}_\chi + g \int d^2x \chi \Phi_{(2,2)}(x) \\
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 \Delta_\phi = \Delta_{(2,2)} \\
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