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Transverse spin densities of octet baryons

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Fourier transforms of electromagnetic form factors provide valuable insights into the spatial distribution of quarks/charge within a hadron. When combined with form factors arising from non-forward matrix elements of the tensor operator, we are able to unlock fascinating information into the distribution of transversely polarised/unpolarised quarks within a transversely polarised/unpolarised hadron. Here we present results from the QCDSF collaboration for simulations in $N_f=2+1$ QCD for the form factors of the octet baryons and their resulting transverse spin densities. Particular attention is paid to $SU(3)$ flavour breaking effects in the octet baryons as we move away from the $SU(3)$ -symmetric point towards the physical point.

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