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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR §1.53(c).

INVENTOR(S)

				Residence					
Given Name (first and m	Family Name or Surname			(City and either State or Foreign Country)					
Hui		Jin			Pasadena, CA				
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Robert		McEliece			Pasaden	a, CA			
∏ Additional inventors a	re being name	t on the 0 senarat	elv r	numbered sheets	attached h	ereto			
TT Additional Inventore a		OF THE INVENTI				0.00.			
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[] Drawing(s) Nu	mber of Shee	ts 0	[]	Other (specify)					
METHOD OF PAYME	NT OF FILING	FEES FOR THIS P	RO\	VISIONAL APPLI	CATION F	OR PA	TENT (check	one)	
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[] The Commissione fees or credit any		50		\$150					
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Telephone No. (858) 678-5070				•	Date of Deposit XMay 18, 2000 Signature				
Docket No. 06618/637001/CIT3220				J	Typed Name of Person Signing XDerek W. Norwood				



Attorney's Docket No.: 06618/637001/ CIT3220

# PROVISIONAL APPLICATION FOR PATENT

# under

# 37 CFR §1.53(c)

TITLE:

SERIAL INTERCONNECTION OF A LOW-DENSITY

GENERATOR CODE WITHA DIGITAL RECURSIVE

FILTER

APPLICANT:

HUI JIN, AAMOD KHANDEKAR AND ROBERT

**MECLIECE** 

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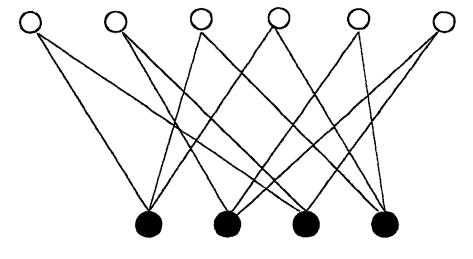
# Turbo-like Code Design: The game near channel capacity

ni Jin



# Low-Density Parity-Check Codes

Gallager 1963



7

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# **Irregular LDPC Codes**

- Idea: Introduce irregularity into degree of variable nodes and check nodes.
- Binary erasure channel: Luby, Mitzenmacher, Shokrollahi, Spielman, 1997.
- AWGN, Binary symmetric channel: Richardson, Urbanke,
   Shokrollahi, 1999.



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