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THE PARALLEL DICHOTOMIES OF DRIVE AND AFFECT IN PSYCHOANALYSIS, NEUROSCIENCES AND COGNITIVE PSYCHOLOGY Sandrine Detandt¹, Sarah Askari, Giulia Olyff & Ariane Bazan



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Based on radically different empiries (resp. psychoanalytic clinic, neurosciences and psychological statistical methods), three different domains concerned with what it means to be human, have independently formulated **3 parallel dichotomies of appreciation or apprehension**:

FROM THE THEORY...

Cognitive Psychology Psychoanalysis Neurosciences Multivariate studies (Osgood, Suci, & Tannenbaum, 1957; Bradley & Lang, 1994; Russell & LIKING PLEASURE Mehrabian, 1977) have consistently found two main factors accounting for the most variance among affect descriptors in emotional language (to describe pictures, qualify stories,...). Despite the plethora of different emotion words, the underlying structure of Freud's experience of satisfaction discharge or tension what is expressed affective language has a *relatively simple dual structure* (Lang, 2010) Subcortical opioïd « hot spots » release induced by by facial and including the nucleus accumbens, Hunger ventral pallidum, parabrachial an adequate act behavioral mimics \rightarrow crying nucleus (Berridge, 2009) (often tied to the conserved over \rightarrow interpretation hedonic valence VALENCE Δ Cingulate Cortex consumption species such as \rightarrow feeding «humans give to things» satisfying the lack at smiles and laughter qualified as positive, \rightarrow tension relieve (Robinson & Berridge, the origin of the pleasant and





	-	_	-	-	-	-	-	
(4) Melancholic	1	2	3	4	5	6	7	Contente
(5) Annoyed	1	2	3	4	5	6	7	Pleased
(6) Dissatisfied	1	2	3	4	5	6	7	Satisfied
Arousal								
(1) Calm	1	2	3	4	5	6	7	Excited
(2) Unaroused	1	2	3	4	5	6	7	Aroused
(3) Dull	1	2	3	4	5	6	7	Jittery
(4) Relaxed	1	2	3	4	5	6	7	Stimulate
(5) Sleepy	1	2	3	4	5	6	7	Wide aw

Hopeful

Happy

«appetitive» (preservative

/ attractive) **versus**

negative, aversive and

Pleasure and *jouissance*, liking and wanting, being distinct, human suffering (and psychopathology) results from motor patterns remaining *jouissive* or wanted - while no longer pleasurable, adequate nor liked (Bazan & Detandt, 2013).

Semantic differential scale for the dimensional structures of reports on objects, events and situations (Mehrabian & Russel, 1974)

(Verschuere, Crombez

& Koster, 2001)

(6) Sluggish 1 2 3 4 5 6 7 Wild

Jouissance without pleasure

Arousal independently of valence

Addictions, whatever the object, are pathologies of jouissance (Le Poulichet, ... «might be a way to conceive irrational desires that underlie Studies show more arousal towards addictive stimuli independently of the the 1987), i.e. so-called « morbid jouissance » implying the persistence of the addiction» (Berridge, 2000): DA systems mediate the incentive salience of stimulus (ex. an image) being evaluated as positive or not. (Moeller, 2012) addictive behavior despite negative consequences and reports of lack of rewards, such as drugs, by modulating their motivational value relatively independently from their opioid hedonic value (Robinson and Berridge, 1993). pleasure and even of displeasure.

ADDICTION

Wanting without liking

AFFECT (e	expression motricity, o	vther-oriented)	DRIVE (survival motricity, self-oriented)				
Pleasure	Liking	Valence	Jouissance	Wanting	Arousal		
tied to the consumption of an object which satisfies a need		based on "appetite", "attraction"	tied to a body action which was (once) adequ	activation in the Mehragian/Bradley&Lang- theory is "of the order of the drive" (Hebb, 1955)			
results from the release of tension / homeostasis		results from (the satisfaction of) "survival needs" (Beadley & Lang, 1994)	results from the increase in t induced by the encounter with the rewarded s	results from a "combination of activity and alertness" (Lang, 2010)			
shared and communicated	measured through "facial expressions"	communicated through language	secret, "mute" (and transgressive)	indifferent to "facial expressions" measures	reflected in language		
Population : smoking addicts	s vs control		THE LAB				

vvanting

Incentive salience towards addictive stimuli (Berridge, 1993) can be spotted by attentional and approach biases to drugs cues (Mogg, 2003). Wanting is thus measured in two ways:

-direct way: *approach bias task* (incentive salience): control versus addictive stimulus in a NoGo task: participants alternate GO or NOGO for addictive stimuli (and vice versa for control stimuli); RTs are measured.

-indirect way: inhibition bias task (overinterest towards addictive stimuli): modified NoGo task: letters M ("GO") or W ("NO GO") printed over either neutral or cigarette background. ERP P300 is supposed to reflect inhibition (Hansenne, 2000*a*,*b*)

Jouissance



Free associations, after probing for cigarettes, on the words "LIFE", "ANXIETY", "SMOKE" and a FREE ASSOCIATION without a word prime. Audio records are given to "naïve" judges (uninformed about psychoanalysis) evaluating the speech on pleasure/jouissance-questions translated from Lacan's seminars: Do you feel that the participant

pleasure: experiences pleasure; likes what he/she is talking about; savors the present moment ? jouissance: talks lively; talks with intensity; is preoccupied; is excited ?

Arousal

Participants are judged on the "Self"-Assessment Manikin scales - by themselves immediately after the Go/NoGo experiment (neuro-cognitive proxy) - by the naive judges on the recorded speech fragments (psychoanalytic-cognitive proxy)

THE FINAL AIM is to correlate the 3 kind of results in smokers: •wanting: shorter RTs, more errors and delayed P300 in (modified) Go/NoGo paradigms •more *jouissance* clues in speech •more **arousal** in speech in order to verify whether, at an **experimental level**, we also find the proposed theoretical parallels.